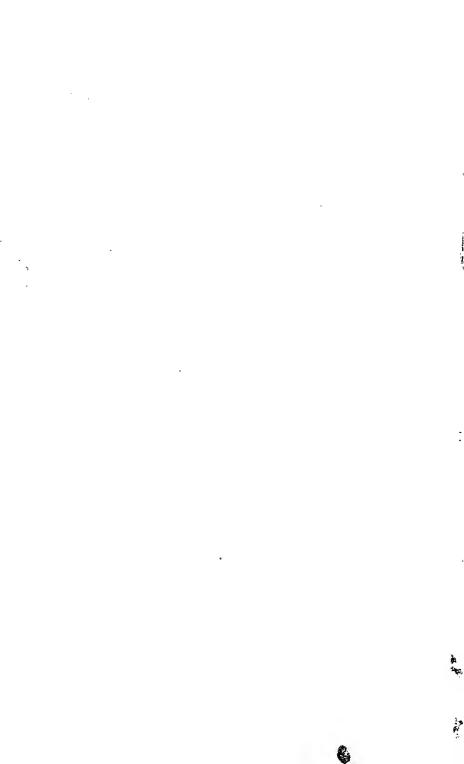
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FOR THE YEARS 1860-63.

EDWARD E. SALISBURY, New Haven.
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ARTICLE I.

ON THE KINGS OF MANDALA,

AS COMMEMORATED IN A SANSKRIT INSCRIPTION

NOW FIRST PRINTED IN THE ORIGINAL TONGUE.

BY FITZ-EDWARD HALL, D.C.L.

Presented to the Society October 17, 1860.

In the fifteenth volume of the Asiatic Researches, pp. 437-443, an English rendering will be found, executed by Captain Fell, and published posthumously, of the record here presented in its own terms and translated anew. But Captain Fell, it should appear, had not seen the first, thirty-ninth, and forty-fourth stanzas, and that which follows the forty-eighth, agreeably to the numbering of the inscriptionist. As for the rest, his labors in connection with the monument under notice were manifestly cut short by his death. This inference is, indeed, fully authorized by the fact that his version of the original was left unaccompanied by any commentation; whereas a land-grant, forming part of the same paper with that version, is annotated in copious detail. Except for the circumstance of his untimely decease, many of the laxities with which his interpretation of the ensuing text is justly chargeable, as it stands, would also, perhaps, have undergone redress.

Sir Henry Sleeman, in the August number of the Journal of the Asiatic Society of Bengal for 1837, has discoursed at length on the historical, or postmythical, princes of Mandala, on the basis of native documents. These documents, as might be anticipated, exhibit a liberal element of the incredible. They consist of two manuscript works in the Hindí language, of anonymous authorship. Copies of both are in my possession. One of them is considerably more specific than the other; and they are not seldom irreconcilable. As, however, we have to do so largely, in these accounts, with palpable fables, it matters little that they contradict each other. Solely with a view to bring forward a specimen of the manner in which the Hindus associate fact and

fiction, do I consent to dwell, for a few moments, on such a sorry substitute for sober chronicles.

According to my vouchers, the earliest among the modern rulers of Mandala were Haihaya Rajputs, of the lineage of the thousand-armed Arjuna. A story is current—all circumstantiality discarded—that, in the days of Nízám Sháh, a copper-plate patent, emanating from one of them, and bearing the date of Samvat 201, or A. D. 143, was exhumed and deciphered. Their seats of government were Manipura, Champávatí, and Mahishmatí; now known as Ratnapura, Lánjí, and Mandala. This group of families having become extinct, the Gonds obtained the ascendant.

At the period when the Gonds predominated, the lord of Mahishmatí repaired to Amarakantaka for the purpose of ceremonial ablution. Attached to his train, in some ministerial quality, was one Yádava Ráya, a Kachhwáhá Rájput of Khándesh. Once, at midnight, while the rest of the camp slumbered, Yádava was doing duty as sentry. Suddenly there passed by, in the darkness, without speaking, two Gond men and a woman of the same race, as they were in seeming. And then came a monkey, bearing in his hand the feather of a peacock. This he threw down, and followed the wayfarers. Yadava's turn of watch having expired, he slept; when, in a vision, Narmadá, the impersonation of the river so-called, stood before him. The men and the woman whom he had taken for Gonds were not so, she informed him, but Ráma, Lakshmana, and Sítá; and the supposed ordinary monkey was Hanumat. Yádava's fortune was to be most propitious; for those sacrosanct beings rarely show themselves in the Iron Age. On his pressing Narmadá for more definite indications, she reminded him of the feather dropped by the monkey. Peacock-feathers are worn on the head by Gonds; and the omen which he had witnessed was significant. Accession to the headship of the Gonds was destined as his lot. He was to visit Gadhá, the chieftain of which place was a Gond. Him he should succeed eventually, by voluntary demission of power. A Bráhman of Rámanagara, cherisher of a perpetual fire, would aid him with counsel. Yádava, his end achieved, was to entertain this Bráhman as his premier.

In the course of a few days, Yádava resigned his place near his master and bent his steps to Gadhá. On conferring with the Bráhman who had been designated, he was advised to engage himself, as an attendant, to the King of Gadhá. This he did, and by and bye insinuated himself into the entire confidence of his new lord. Arrived at the dignity of treasurer, he was joined by his family from Khandesh. The King, who had but one child, and that a daughter, proposed to contract her to Yádava, a widower, on presumption. To this overture Yádava excepted, on

the ground of caste. Sarve Páthaka, the Bráhman before spoken of, was applied to for his opinion. It was favorable to the match, on condition that the couple should never eat together. To this condition the King signified his assent; and the nuptials were celebrated. Upon this, the King, who was well stricken in years, abdicated, retaining the revenues of five villages for his maintenance; and Yádava reigned in his stead. His enthronement is adjudged to the Samvat year 415, corresponding to A. D. 357. Sarve Páthaka was installed as prime minister; he and his employer solemnly obtesting Narmadá to their compact, and imprecating perdition, each on his own family, in the event of their descendants' ever being embroiled. By gradual extension, the kingdom expanded so as to skirt the river Hiran in one direction, and, in another, the Gaura. Yádava, after enjoying royalty for five years, died, and was succeeded by his son Mádhava. Several of Sarve Pathaka's progeny served the chiefs of Mandala in course. To them the clan called Bhar Vájpeyí is said to trace its origin.

Karna, it is stated, founded the city of Karanbel. But of this I have very grave doubts. It is to be referred, much more probably, to a Karna of a different dynasty. Karanbel lies a few miles from Jubulpoor. I have explored its ruins. Madana Sinha is, further, mentioned as builder of the Madana-mahal, likewise near Jubulpoor. There is no reason why he may not have been so. The erections and conquests of other of the potentates in question are specified with some minuteness. The towns and fortresses enumerated have mostly, if not all, been verified. In subjugation, Sangráma was signally successful. A list is given of two and fifty strong-holds which he compelled to yield him

obedience.

Durgávatí, the lady especially commemorated in the following pages, was daughter of the Chandel chief of Mahobá. As queen regnant, her husband having demised, she ventured on a foray against Bhelsá. In reprisal for this incursion, A'saf Khán was sent, by the Emperor Akbar, to chastise her hardihood. At the time when she and her son were slain, the latter had advanced

to his eighteenth year.1

Having extracted from my manuscript materials about all that they contain of interest, I turn, for a single matter, to the historian Farishta. "Pending a very sharp engagement," says this writer, "the Queen was wounded in the eye by an arrow, and desisted from the conduct; and, with an extreme sense of honor as to being captured, resolving to die, she took a scimitar from her elephant-driver, and put an end to her existence." A'saf Khán, after her death, moved on to attack the fort of Chorágarh, where her young son was in hiding. In the tumult of the assault, the heir apparent "perished beneath the hands and feet of the throng."

A lineal descendant of the magnates with whom this paper is concerned, having been found implicated in the mutinies, was, in the autumn of last year, exploded from before the mouth of a cannon, at Jubulpoor. This man left an only son. His family would, otherwise, have terminated with his own death. The miscreant had concerted a plan of smothering every Christian that should fall into his hands, by enclosing the head of the victim in a bag of powdered chillies. When apprehended, he had about his person a pious formula of commination, which may be reproduced in these words: "Close the mouth of the tale-bearers, chew up the back-biters, trample out the wicked, exterminatrix of our foes. Slay the English; reduce them to dust, Mother Chandí. Let not the enemies escape, or their children, destructive lady. Protect S'ankara; keep thy slave. Hearken to the cry of the humble. Victory to Mother Hálaká! Eat up the impure; delay not, Mother. This moment, speedily, devour our foes, O Káliká."4

The inscription now to be given is incised on a stone which lies at Rámanagara, in Mandala. As I have had no opportunity of inspecting the monument itself, I have had to be satisfied with fac-simile impressions, taken by rubbing.

INSCRIPTION.

श्रीगणेशाय नमः। श्रीमुन्दर्त्रिविक्रमो जयति। इत्थम्भावेन केनाण्यं स्यविज्ञाताय विष्ठवे। स्वमात्रेणेव कतिधा भवते भवते नमः॥१॥ याद्वरायिज्ञितिभृद् बभूव गुणनीर्रिधर्गढादेशे। सूनुर्माधविसंक्तस्य यतो ज्भूज् जगन्नाथः॥६॥ श्रज्ञिन ततो रघुनाथस्तस्य सुतो रुद्रदेव इत्यासीत्। तस्य च विक्रारिसिंकः सूनुर्नर्सिंक्देव इति तस्य॥६॥ तनयो जस्य सूर्यभानुस्तस्य सुतो वासुदेव इत्यभवत्। गोपालसािक्रस्मात् समजनि भूपालसािक्रितः॥४॥ तस्माद् गोपीनाथस्ततस्तु नृपरामचन्द्र इत्यासीत्। सुरतानसिंकनामा सृनुरभूद् रामचन्द्रस्य॥५॥ कृरिक्रदेवस्तनयस्तस्याऽऽसित् कृष्णेत्व इति तस्य। स्रज्ञिन जगित्संको उस्माद् यस्माद्भवन् मकासिंकः॥६॥ तस्माद् उर्जनमछो उभूद् यशःकर्णस्ततो उभवत्। प्रतापादित्य इत्यस्माद् यशश्चन्द्रस्ततो उज्ञिन॥७॥ तस्य मनोक्रसिंकः सुतो उस्य गोविन्दसिंक् इत्यासीत्। स्रस्मात् तु रामचन्द्रस्तस्मात् कर्णो उथ रत्नसेनो उतः॥०॥

कमलनयन इत्यभूदमुष्मान्

नरक्रिदेवनृपस्तु तस्य मूनुः। समजनि तनयो अस्य वीर्रिसंक्स्

त्रिभुवनरायममूत यः सुपुत्रम् ॥१॥
तस्मात् पृथ्वीराज्ञस्ततो ज्भवद् भारतीचन्द्रः।
तनयो ज्स्य मदनसिंक्स्ततस्वभूड्यसेन इति॥१०॥
रामसाक्तिः सुतो जस्याज्जसीत् ताराचन्द्रस्ततो ज्भवत्।
ग्रभूडद्यसिंको जस्माद् भानुमित्राभिधस्ततः॥११॥
तस्य भवानीदासस्तनयस्तस्याज्य शिवसिंकः।
क्रिनारायणनामा सुतो जस्य तस्य तु सबलसिंकः॥१२॥
राजसिंकः सुतो जस्याज्जनिसंक्मसूत यः॥१३॥
गोरच्चदासः पुत्रो जस्याज्जनिसंक्मसूत यः॥१३॥

श्रासीत् सूनुस्तस्य सङ्गामसाहिर् विदिर्तूलस्तोमकल्पानवङ्गिः। विधग् व्याप्ते यत्प्रतापप्रकाशे मध्याक्नाकी विस्फुलिङ्गीबभूव॥१४॥ वब्रप्रायैः पर्वतप्रीहगाहैः सुप्राकारिरम्बुभिश्चाऽत्तवाणि। द्वापञ्चाशद् येन दुर्गाणि राज्ञा मिवृत्तानि चोणिचक्रं विजित्य ॥१५॥ दलपतिनृपतिर्बभूव तस्य चितिपमणेस्तनयः पवित्रकीर्तिः। म्रिभिलपित मुखानि यस्य कीर्ति चिरम्यगात्मियति नागनायः॥१६॥ वितर्णवारिभिर्नियतमाईकर्स्य क्रि-स्मर्णपरावणस्य शर्णस्य वशीभवताम्। निरुपिधपालितप्रकृतिकस्य हि यस्य सदा चरणरजो रजोगुणजुषो ४पि जना जगृङ्गः॥१०॥ म्रभार्थिनां भाग्यसमृद्धिरेव स्वरूपिणी पुण्यपर्म्परैव। सौभाग्यसीमैव वसुन्धराया दुर्गावती तस्य बभूव पत्नी॥१८॥

प्रन्दरे भूवलयस्य तस्मिन् श्रस्तं प्रयाते तनयं त्रिवर्षम्। श्रीवीरनारायणनामधेयं दुर्गावती राज्यपदे अधिचत्॥११॥ त्रत्युच्चैः कनकालयैः परिलसन्निःसीमहेमाचला सर्वत्रैव लुरुत्सुरत्निनचैयैर्निःसंख्यरताकरा। उद्दामिद्धर दब्रजीरगणितस्वर्गेशदन्तावला भूरन्येव कृता अखिला त्रिभ्वनप्रख्यातकीर्त्या वया ॥५०॥ त्रङ्गमातङ्गस्वर्णकोिं विनरन्तरोत्सर्गमयाङ्गिका या *। ख्रशेषकीर्ति किल कामधेनोर्वशोभिरुचैर्धरीचकार॥५१॥ स्वयं समारुखा गतं रणेषु बलाज् जयसी प्रवलान् विपत्तान्। सदा प्रजापालनसावधाना सा लोकपालान् विफलीचकार॥ १२॥ महैव गृह्मन् स करेण राज्ञां तद्वर्जितं विश्वविसारि तेजः। विवेश तारुएयमनत्तर्कार्तिः श्रीवीरनारायणनामधेवः ॥ ५३ ॥ कालक्रमादकबरिचतिपुरुङ्गतेन पार्वकल्पेन। प्रिक्तः कराय वलवान् श्रासफखानस्ततो राज्ञा ॥५४॥

^{*} The original has at:, which I have not hesitated to alter.

ग्रज्ञोहिणीनम्रितभृतलेन वाते रणे तेन महाभटेन। बलं विजित्या अपि समस्तमस्य द्वर्गावती भीमपराक्रमेण ॥ ५५॥ संविज्ञिता लज्जविपज्जवाणैः स्वपाणिखद्गेन शिरः स्वकीयम्। क्रिवा चणेन दिरदे निषमा जभनद् रवेर्मएउलमात्मज्ञश्च ॥५६॥ दलपतिनृपतेर्थाःनुजन्मा शर्णमनाथजनस्य चन्द्रसाहिः। निधिरिव मक्सामखण्डदीपः सकलकुलस्य यशोधनो जिमेषिकः॥५०॥ वस्त्राण्याकृष्य केशग्ररूमिय तर्वः कुर्वते काएकैः स्वैः श्वासिर्वास्तान् द्रुलि दुत्तविवृतवपुर्वितिदावान् प्रदृश्व। नैष्ठुर्येणैव नित्यं द्धति च विसतुं वास्त्रचः पाद्पानां कालारे शत्रुकालाः कलक्मिव सक् स्थावरैर्यस्य चकुः समजनि तनयो नृपस्य तस्य ॥५८॥ स्मर्द्रुनादिव पामुखः मुकीर्तिः। निधिरिव महसामिङोर्जितानां मधुकरसाव्हिरिति चमातलेन्द्रः॥५१॥

प्रत्ययप्रीठगाठप्रलयजलधरधन्यधःकारिङका-धावडुकुारधाराबधिरितविधृतधस्तधीरोइतेन। येन प्रोद्दामधाम्ना भुजबल्तविकितैः शश्वदाशा दिगीशान्। श्रघाऽपि स्पष्टमष्टौ जनगणर्रितिस्तज्ञुवैर्त्तज्ज्यन्ति॥३०॥ साधूनामभिलाषसिद्धिविभवः द्वात्रं समग्रं मकः शितमूर्तिमती स्मरस्य भवनं कीर्तः कुलस्योव्रतिः। सर्वस्वं सुकृतस्य कौशलमितिः सृहुर्गुणानां निधिरू दोषाणामपथं सुतो उस्य नृपतेः श्रीप्रेमनारायणः ॥३१॥ प्रोन्मायदिन्ध्यगन्धिदरदधनघटाघोरसेनासरुस-प्रत्ययप्रीष्टधारावनमितविधृताशेषभूभृहणस्य। यस्य प्रोखत्प्रतापप्रथमपरिचयप्रद्रतभ्रष्टनिद्रा नाज्याजी द्राम् विपत्ता जक्ति गिरिदरीः मुन्दरीभिर्वियुक्ताः ॥ ३२॥ प्रौढा रुव चितीशाः समर्भृवि बलार् बन्धनीया न वैरं

प्रौठा एव चितीशाः समर्भुवि वलाद् बन्धनीया न वैरं कीर्तिर्लोके जवदानरिवरतिविद्दिर्तविर्धनीया न गर्वः। दातव्यं सर्वदेव दुतमभिलपितं याचकेभ्यो न पृष्टं भूपानामेष धर्मः स्फुटिमिक् चिर्ति प्रेमसाक्तेः प्रमाणम्॥६६॥ पूर्णानेककलातिथिः प्रतिपदारुब्धोद्यः सर्वदा-ज्होरात्रप्रथमानमासमिक्सा सत्कृष्णपन्नक्रमः।

^{*} In the Sanskrit, the visarga is omitted: clearly by error of the engraver, or of his exemplar.

तस्माद्द्य इवाज्परः समज्ञीन श्रीप्रेमसान्द्रिप्रभोरू नाम्ना श्रीकृदयेश्वरः सुखियता पूर्वप्रभावः सताम् ॥३८॥ स च पालयन् निखिलमेव जगन् नितरामनायमवति चितिपः। ममवर्षणो ज्यतिशयेन धनः पयसाजभिपिञ्चति हि निम्नगतम्॥३५॥ रम्बारामपरम्परापरिवृताः सीधालपैरुव्रताः सम्पन्नप्रज्ञया भृताः सकमलैः स्वच्हैः सरोभिर्यृताः। येन व्यायतनैकघोषरुचिरा विद्यग् विशालोर्वरा विष्रेभ्यः स्मृतताम्रपट्विधिभिर्यामाः किवलो ऽर्पिताः॥३६॥ मुखानैः स्वंरभेदवोधकरणं मद्रामतालोचितं सम्पूर्णश्रृतिधर्मरागरुचिरं तत्कण्ठतानाश्रितम्। सन्मार्गिस्यितिचित्तदारि स्न्तभं यत् किन्नराणां मरुत् साम्राज्यं निजमृद्धार सकत्तं सङ्गीतशास्त्रं च यः॥३७॥ **ग्रचला निविला**ं विला नुपाला कृद्येणस्य मम्ः करें अमृनैव। लिषिताः कनकैकभित्तमध्ये नन् पञ्चाशदिव दिपा मकालः॥३८॥

^{*} I have never before met with Ha for Ha; and it may be a mistake. The dictionaries have only the latter, in the sense of 'wall.' Metrically considered, either will here answer, as being a trochee.

स्रभृद्णीयस्यचले तु लच्चे न विस्मयः कश्चन तेन विद्वे। तिर्यक्पिरिचित्तशरं शर्र्यः स्थले स्थले खेकपदे हिनति॥३१॥ मृगयावसरे पदेन मृग्यन् स्रलघुव्यालकरालभान्तमेव। स्रवर्धादचिरेण यः शरेण प्रवलदीपिनमापतलमुचैः॥४०॥

वस्योपरीवमिन्द्रोतिः।

ग्रिय वद् विमनाः कुतो असि तिस्तो विव्युधवरा विदिनं न वः किमेतत्। कृदयनर्पितर्यदेप विद्रान् भुवि विद्धाति शतक्रतृननेकान्॥४१॥ ग्रभवत् सुन्दर्रिदेवी राज्ञी तस्य मक्षीपतेः। सौभाग्यसदनं पुण्यसम्पद्व स्वरृपिणी॥४६॥

दिर्द्रद्वःखोधनिद्यनवारिभिर् निर्त्तरप्रस्तृतद्गवारिभिः। गजा धनाभा धनदानवारिभिर् वतः मदाश्याः चितिद्यनवारिभिः॥४३॥ स्रविरतमुत्तरोत्तर्निवन्थ्यवद्यनकृतेर्

मितमवकाशमेत्य भ्वनेषु गतैर्घनताम्। शर्दिजशीतर्शिमशतसाध्यविकाशकरैर् जगति यदीववेशलवशोभिरशोभितराम् ॥⁸⁸॥ दीर्घिकारामकासारप्रमुखिर्भूरिदिचिणैः। पूर्तिरनतीर्या धर्म निरन्तरमपालयत् ॥ ४५॥ विन्नोः शम्भोर्गणेशस्य दुर्गायास्तरणेश्च या। व्यधित स्थापनिमदं विधाय विव्धालयम् ॥ ४६ ॥ तस्याः स्तावायं कः शक्तः शङ्करश्रीधरादयः। मुपर्वाणो अपि मिह्ताः प्रतिष्ठां प्रापिता यया ॥४०॥ तत्र नियुक्तैर्विप्रैरुपक्रिरुत्सवैर्धनैरुमितैः। या मुन्दरत्रिविक्रममुख्यान् देवान् सदार्ज्यवाञ्चक्रे ॥४०॥ राजाज्ञया मुगावत्या श्यामया च मुर्राह्विपे। ลิลลิลิมุเทษม์ เหาล์เขล โลลขทะแ † แ कृदयेशमकीपालो जिगाव नितरां तथा। शक्तिप्रकर्षः चमया चन्द्रश्चन्द्रिकया यथा॥४१॥ **मुकीर्तिमीमांसाविवरणग्रोस्तर्कजयिनः** म्**तेन** [‡]च्छ्न्दोङ्गप्रवचनपटोर्मएउनकवेः।

^{*} For स्तवाय; perhaps not by the intention of the versifier. स्तावाय is not required by prosody; and it is exceedingly rare, if not wholly unauthorized.

[†] This couplet stands, on the stone, below the rest of the inscription, to the left hand. It has no number; and I have assigned its place by conjecture.

[‡] The stone has \$\overline{\sigma_{\sigma_{\sigma}}}\cap{\circ}^\circ\$. But the author, with due regard to quantity, wrote as I have corrected.

तदीयादेशेन व्यर्घि जयगोविन्दविद्वषा समासात् तदंशिक्तितपविषये वर्णनिमद्म्॥५०॥ सिंक्सािक्द्यारामभगीर्यसमाद्ध्यैः। शिल्पिभिर्निर्मितमिदं निपुणैर्विव्धालयम्॥५१॥ वेदनेत्रक्येन्दब्दे ज्येष्ठे विष्तुतियौ शिते। सदाशिवेन लिखितमुत्कीर्णं तैः सुशिल्पिभः॥५२॥ संवत् १७२४ वर्षे ज्येष्ठशुद्धे १२ शुक्रवारे।

TRANSLATION.

Glory to the auspicious Ganes'a! The auspicious Trivikrama,⁵ the beautiful, bears sway.

1. Salutation to thee, Vishnu, who, though, as if in thy entirety, manifoldly manifested, art yet assuredly unapprehended in

any thy real nature6 whatsoever.

2. In the country of Gadhá⁷ was a monarch, Yádavaraya; a sea of virtuous qualities. His son was Mádhavasinha; from whom sprang Jagannátha.

3. Of him was born Raghunátha. His son was Rudradeva; and his son was Vihárisinha. Narasinhadeva was his offspring.

4. His son was Súryabhánu; and his son was Vasudeva. Of him was born Gopálasáhi; and of him, Bhúpálasáhi.

5. From him issued Gopínátha; and from him, King Rámachandra. The son of Rámachandra was Suratánasinha, so called.

6. Hariharadeva was his son. Krishnadeva was his. Of him was born Jagatsinha; from whom originated Mahásinha.

- 7. Of him came Durjanamalla. From him sprang Yas'ah-karna; and from him, Pratápáditya. Of him was born Yas'as'-chandra.
- 8. His son was Manoharasinha. Govindasinha was his; and from him proceeded Rámachandra; and from him, Karna: then, from him, Ratnasena.8
- 9. Of him came Kamalanayana; and his son was King Naraharideva. Of him a son was born, Vírasinha⁹; who procreated a duteous son, Tribhuvanaráya.

^{*} Is সিন, for 'white,' 'light,' allowable in place of মিন! The former is by no means uncommon in inscriptions, even where, as in this, the first and last sibulants are carefully discriminated.

10. From him was derived Prithwírája. From him sprang Bháratíchandra. His son was Madanasinha; and from him Ugrasena had his descent.

11. Rámasáhi was his son; and from him issued Táráchandra. Of him was born Udayasinha: of him, Bhánumitra, as was his

name.

12. His son was Bhavánídása; and of him S'ivasinha was the heir. His son was denominated Harináráyana; and his son was Sabalasinha.

13. Rájašinha was his son; and of him was born Dádíráya. 10

His son was Gorakshadása; who begat Arjunasinha.

14. His son was Sangrámasáhi; an exterminating fire¹¹ to his foes, as if they had been masses of cotton-wool: on the radiance of whose grandeur being spread abroad, the midday sun became

like a mere spark:

15. By which king, when he had reduced the orb of the earth, two and fifty fastnesses were constructed; indestructible from their excellent fortifications—which were like adamant, and possessed the firm strength of mountains—and because of their water.

16. Of him, gem of princes, King Dalapati was the son; of unsullied glory: to hymn forth whose fame the lord of serpents

hoped that all his mouths would enduringly remain:

17. To the dust of whose feet—since his hand was constantly moist with the water of bounty, 12 and as he was diligent in the remembrance of Hari, a refuge to those who were brought under his authority, and a guileless guardian of his dependants—even people infected with the quality of passion continually had recourse.

18. His consort was Durgávatí; in sooth the increase of fortune to suppliants; accumulated holiness actually personified;

the very bound of earth's prosperity.

19. This Purandara¹³ of the circuit of the earth having demised, Durgávatí consecrated on the seat of royalty their son, of

three years of age, the illustrious Víranáráyana, so called.

20. By whom, *Durgávati*, of repute blazoned throughout the triple universe, the whole earth was rendered as it were another; by interminable glittering Hemáchalas, ¹⁴ in its stately golden edifices; by seas ¹⁵ untold, in its abundance of valuable jewels everywhere tossing about; by innumerable Indra's ¹⁶ elephants, in its herds of spirited elephants:

21. Who, Durgávatí, with her daily occupation, which consisted in unceasing donations of millions of horses, elephants, and pieces of gold, 17 depreciated, in semblance, by her exalted celeb-

rity, the universal honor of Kámadhenu. 18

22. Mounted on an elephant, in person, and by force overmastering, in many a battle, prepotent adversaries, ever studious for

the safeguard of her subjects, she superseded, to all appearance,

the protectors of the regions.¹⁹

23. Appropriating, no less than the tribute of kings, their illustrious world-diffused splendor, he, the fortunate Víranáráyana, as was his appellation, of renown illimitable, entered on adolescence.

24. Subsequently, some time having elapsed, A'saf Khán, with an army,²⁰ was deputed by King Akbar,²¹ Puruhúta²² of the earth, all but compeer of Pártha,²³ for the purpose of levying a

contribution.

25. At the close of an engagement, by this great warrior—a Bhíma in prowess, whose armaments depressed the face of the earth—Durgávatí, though she had vanquished his entire army,

26. Being vexed with countless hostile arrows, clove her own head, in an instant, with a sword in her hand, as she sat on her elephant; whereupon she penetrated the solar sphere, as did her son.²⁴

27. Then was inaugurated the younger brother of King Dalapati, Chandrasáhi; an asylum to the lordless people; a treasury, so to speak, of magnificence; the inextinguishable irradiator of

his whole race; opulent in glory:

28. Of the wives of whose antagonists the trees, with their thorns, snatched away the robes and laid hold of the tresses; while they, the ladies, exhibiting conflagrations in the sheen of their persons suddenly exposed, consumed them, the trees, with their sighs; and ever, from very wretchedness, they wore the bark of shrubs for clothing. Thus, in the forests, did they, in a manner, wage strife with things immovable.²⁵

29. Of this monarch a son was born, King²⁶ Madhukarasáhi—as, of S'iva,²⁷ Shanmukha²⁸—of honorable note; as if a recep-

tacle of noble greatness:

- 30. By the triumphs of whom—resistless in enterprise, as repelling 29 and destroying the impetuous and overweening, stricken deaf with the rushing torrent of the clamor of his drums, enough to drown the roar of huge compact cataclysmal rain-clouds newly come—achieved by the might of his arm, and applauded by multitudes of his lieges, the quarters, responsive, oftentimes, to this very day, manifestly cause shame to their eight presiding deities.
- 31. The son of this king was the fortunate Premanáráyana; accomplishing, through his affluence, the desires of the pure; the collective lustre of the tribe of warriors; the incorporate energy of Smara; a domicile of good report; the exaltation of his family; the complete estate of virtue; the measure of creative cunning; a repository of merits; no path for reproach:³⁰

32. Of whom—humbling and routing a whole troop of chieftains, by the fresh dense surge of thousands of legions terrible

with serried phalanxes of most infuriate elephants redolent from the Vindhyas—the adversaries, whose slumbers were straightway broken when first they perceived his refulgent grandeur, do not even yet readily leave the caves of the mountains, though

separated from their wives.

33. Kings indeed presumptuous should be rigorously coerced on the battle-field: but one ought not to harbor animosity. Fame should be enhanced by performing meritorious acts, unremittingly, among the people: but one must not foster pride. Their wishes should, at all times whatever, promptly be granted to petitioners: but one must not wait to be entreated. Such, obviously, is the duty of rulers in this world; and for the justness of these maxims the practice of Premasáhi is an argument.

34. Of him, the auspicious lord Premasáhi, was born another, the illustrious lord Hridaya, as he was called; a source of happiness to the pious, and mighty like his forefathers: as arises the year; teeming with lunar days of numerous moments; whose appearance commences with the first day of the moon's increase; ever augmented by months growing with nycthemera; ³² alter-

nating with light and dark fortnights.33

35. Thoroughly defending the entire world, this monarch especially befriends the helpless; as a cloud, rain equably as it may,

yet irrigates most copiously the low places with its water:

36. By which king have been assigned to Bráhmans, with the prescribed formalities of grants on plates of copper, sundry villages; begirt by lines of elegant gardens, rising with stuccoed dwelling-houses, inhabited by a substantial tenantry, provided with pellucid meres stocked with water-lilies, adorned with ample and frequent habitations of herdsmen, and with spacious

tillage34 round about:

37. Which king keeps up all his vast domain: where, from goodly mansions, may be recognized diversities of enunciation; which is eligible from its fine towns and palm-trees; delightful from attachment to the body of revealed and memorial law; independent of its border-lands; captivating the heart by the presence of proper roads; and easy of attainment only by men challenging admiration: and he is likewise conversant in the science of melody and the dance, with its refinements.³⁵

38. The whole earth and all potentates are enclosed in the hand of lord Hridaya. By the same were traced, midway on a

golden wall, as it had been fifty immense elephants.

39. It has been no matter of surprise at all, that a minute stationary butt was transfixed by him, who, with his shafts, can sever, almost simultaneously, at quite distinct points, an arrow launched obliquely:

40. Who, at the time of the chase, hunting on foot, has, all of a sudden, slain, with his bolt, a tiger assaulting from aloft, of forefront fearful as an enormous serpent's, and formidable:

Regarding whom is this speech of Indra—when he was thus

bespoken:

41. 'Prithee tell us, Jishnu, 36 why thou art dejected:' 'What! is it not known to you, worthy deities, that this King Hridaya makes, on the earth, of Brahmans, many S'atakratus?' 37

42. Of this lord of earth the queen is Sundarí Deví; the abode of prosperity, as being, in effect, the wealth of merit, embodied:

- 43. From whom are constantly obtained, by Bráhmans,³⁸ elephants, beauteous as dusky clouds, with the copious ichor of their frontal exudation; given with the water of donation³⁹ ever at hand; precluding, to the needy, the cause of clustering miseries:
- 44. Who shines, resplendent, throughout the world, with her fair fame; earned, unceasingly, by endowments, in succession as ordained; which endowments, finding, among the nations, straitened scope for encomium, reached to heaven; giving forth such effulgence as a hundred autumnal moons would realize:

45. Who observes, without intermission, the *holy* ordinances, by innumerable conservatory liberalities, ⁴⁰ in the making of reservoirs, gardens, ponds, and the like, entailing munificent gratuities:

46. Who, establishing this fane, has enshrined therein Vishnu,

S'ambhu, Ganes'a, Durgá, and Tarani.41

47. Who is there capable of *fitly* eulogizing her, by whom an abode has been provided to the adorable S'ankara, ⁴² S'rídhara, ⁴³

and others, deities as they are?

48. Who, the queen, evermore pays worship to the gods—and to the comely Trivikrama as chief—in the Brahmans whom she employs in it, and by dispensing good cheer, by keeping jubilees, and by bestowing unmeted riches.

—. Moreover, by the command of the king, the youthful Mrigavatí⁴¹ constantly brings various articles of food for oblation to

Muradwit.45

49. Surpassingly victorious is the lord King Hridaya, and preeminent in power by his elemency; even as the moon, with its

beams, subdues by the force of gentleness.

50. At his behest, the clerkly Jayagovinda—son of the learned Mandana, of favorable repute, versed in the exegesis of the Mímánsá, a master of dialectic, and proficient in expounding the sacred oracles and their supplements—has composed, in epitome, this account relating to the sovereigns of his lineage.

51. By dexterous artificers, named Sinhasáhi, Dayáráma, and

Bhagíratha, this temple was constructed.

52. On the day of Vishnu, 46 in the light fortnight of Jyeshtha, in the year one thousand seven hundred and twenty-four, this record was transcribed by Sadás'iva, and engraven by these skillful artisans aforesaid.

Friday, the 12th day of the bright semi-lunation of Jyeshtha, in the year of Samvat 1724.

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18.	Priylpha.
19.	S'ubha.
20, 31, 34, 36, 37.	S'árdúlavikrídita.
21, 39.	Upendravajrá.
22, 23.	Dhriti.
25.	Varídhará.
26.	Smriti.
28, 30, 32, 33.	Sragdhará.
35.	Pramitákshará.
38, 40.	Aupachhandasika.
43.	Vans'astha.
50.	S'ikhariní.

Notes.

- 1. Durgávati underwent cremation some ten or twelve miles from Jubulpore, between the Maṇḍala road and the Nerbudda. Her tomb is much frequented as a place of pilgrimage. It is spoken of in Sir Henry Sleeman's Rambles and Recollections of an Indian Official.
- 2. Poona lithograph edition of Farishta, i. 481. This is the correct paging, and not 281, as is printed. I have collated four MSS. for the Persian of the passage under reference and its relative context; and I am unable to suggest a single reading, out of dozens, in supersession, at an improvement, of what I find in the lithograph. Evidently it was prepared with great care, if one may thus judge by synecdoche.
- 3. This is in the pargana of Gádarwárá, District of Nursinghpoor, according to the prevailing official chorography of Central India.
- 4. For the original of this precious production, which runs as below, I am beholden to the kindness of my friend Major Erskine, Commissioner of the Saugor and Nerbudda Territories. The language is rustic Hindí, and that of a very crude order. Still the Sanskrit scholar, at least with the aid of my version, will scarcely fail to divine the source of many of its expressions.

मृंद् मुल उंउन को चुगलों को चन्नाइ लाइ। खूंद्र उार दुष्टन को प्रानुसंधारका। मार् ग्रंगरेत रेत कर देइ मात चंडी। व्यच नहीं बैरी व्यालबंध संघारका। प्रांकर की रहा कर दासप्रतिपाल कर। दीन की पुकार सुन ताय मात हालका। खाय ले मलेच्हन को केर नाहिं करी मात। भच्छन कर ततच्छन बेग प्रांत्रन को कालिका।

- 5. A title of Vishnu. Its import, according to the Puránas, is given in the dictionaries. For an explanation of the Vaidika Vishnu's three steps, sec a passage, cited from Durga A'chárya, in Dr. Muir's *Mataparikshá*, Part the First, p. 105 of the Sanskrit. Also see Prof. Wilson's Translation of the *Rig-veda*, i. 53, 54.
- **6.**-Such, or 'very essence,' páramárthikam sadrúpam, appears to be the most preferable rendering of itthambháva; a term which, among the grammarians, has served as a theme of most voluminous contention.

The various significations of *ittham*, and of its synonyme *tathá*, have not as yet, to my knowledge, received much consideration. The latter obviously implies 'seasonableness,' in this couplet:

कार्यात् कार्णानुमानं यच् च तत् प्रेषवन् मतम्। तथाविधनदीपुरान् मेघो वृष्टो यथोपरि॥

Shad-dars'ana-samuchchaya, s'l. 21.

In fact, the precise shade of meaning borne by $tath\acute{a}$ seems frequently to depend entirely on the requirements of the context. But even the natural transition of its import from 'so' or 'thus' to 'conformably,' and thence to 'rightly,' 'well,' 'as desired,' may perhaps lead to a correct apprehension of the Bauddha $Tath\acute{a}gata$, convertible with Sugata, or 'the departed in peace.' Cf. Mirabar hoc si sic abieret. Terent., Andr., I. ii. 4. If this explanation of $Tath\acute{a}gata$ be inadmissible, we may, by the analogy of other languages—as the Greek, in which oðrws sometimes stands for $\dot{e}a\delta iws$ —take its element $tath\acute{a}$ to intend 'easily,' 'without impediment:' or, 'notoriously.' Another strictly derivative sense of which this particle is susceptible is 'for good and forever,' 'conclusively,' 'in perpetuity:' he passed away not to return. Or, 'just as he was;' that is to say, absolved from the necessity of renewing his earthly existence.

- 7. A region whose extent is not yet determined with any certainty, but which included more or less of the present District of Jubulpore. Four miles to the S. W. of the city so called lies what is now the village of Gadhá; a place which is supposed to have been, in former times, the capital of the kingdom mentioned in the text.
- 8. This name and the last, with the connective that couples them, are fused, by Captain Fell, into the portentous combination "Karnotharatnasena."
 - 9. Sir W. H. Sleeman transposes Virasinha and his sire.
- 10. He is referred to in the Baghelo-vans'a-charita, chapter iv. In his time Baber sat on the throne of Delhi.

- 11. Literally, 'conflagration at the end of the world.'
- 12. "Solemn donations are ratified by pouring water into the hand of the donee." Colebrooke's Miscell. Essays, ii. 259, foot-note.
 - 13. A name of Indra: 'the spoiler of the cities' of his foes.
 - 14. 'The golden mountain:' Meru.
- 15. Represented, in order to secure an equivoque, by an epithet signifying 'mine of precious stones.'
- 16. The original has swargis'a, 'lord of paradise;' one of Indra's appellatives.
- 17. Suvarna, in the Sanskrit; the name of a weight and of a coin. For its definition and value, see the As. Res. (8vo. edition), v. 93: also Prof. Wilson's Select Specimens of the Theatre of the Hindus (second edition), i. 47, foot-note.
 - 18. The ever-beneficent cow of Hindu fable, who gratifies every desire.
- 19. In the original there is an intention to palter with the expressions projá and loka.
- 20. This, and not 'powerful,' is, I think, here the designed sense of balaván, by a strain.
- 21. In the Sanskrit, Akabara. Just before we also have, partly as being unavoidable, A'sapha Khána.
 - 22. A title of Indra: 'the much-invoked.'
 - 23. The same as Arjuna. Pártha is the matronymic of Prithá.
- 24. To entitle either the queen or the heir apparent to such a destination as he has assigned them, the poet may be suspected of having taken one of the liberties of his craft. S'rídhara Swámin—while annotating the Bhágavata-purána, vi. 10, 33—cites the following apposite scripture, but without supplying means for its verification:

द्वाविमी पुरुषी लोके सूर्वमण्डलभेदिनी। परिवृाड् यो<u>ग्</u>युक्तम्म रूपो यो ऽ भिमुखी हतः

'These two persons notor busly rend and enter the disk of the sun: the contemplative superannuated ascetic, and he that is slain in battle,

affronting the foe.'

Captain Fell englishes the twenty-fifth and twenty-sixth stanzas in these words: "Upon a battle taking place, this illustrious warrior, who made the earth bend beneath his vast army, and who had ever defeated his foes by his dreadful valor, was slain by hundreds of thousands of his adversary's arrows. Durgávatí, who was mounted on an elephant, severed her own head with the scimitar she held in her hand: she reached the snpreme spirit, pierced the sun's orb (obtained salvation)."

- 25. As following a different classification of natural objects, we should here say, but only as an approximate equivalent, 'inanimate.'
- 26. In the expansiveness of the original, 'the lord of the face of the earth.'

- 27. Word for word, 'the burner of Smara,' one of the names of the Hindu Eros, signifying 'remembrance.' The story of his destruction by S'iva's frontal eye cannot require repeating.
 - 28. 'The six-faced:' Kartikeya, the god of war.
- 29. Vidhuta; a very common, yet soleeistic, form of the past participle, for vidhuta. In the thirty-second stanza it occurs again.
- 30. Many Hindu writers, particularly the later, greatly affect this species of delineation by similes. An extract from the description of the heroine of Subandhu's novelette may not unaptly be introduced as a longer specimen in the same style: 'As it were, a picture on the wall of versatile life, the rendezvous of the daintiness of the triple universe, the alchemical master-remedy of the archmagician Youth, the ideal of erotic conception, a lodgment of joyousness, Cupid's ensign in the conquest of the three spheres, the realization of fancy, the rebuke of Love, a magistery to brace the senses, the fascinating energy of the Heartagitator, the native pleasure-ground of beauty, chief chamber in the fane of good fortune, the fountain-head of pulchritude, the perfection of soul's attracting incantations, the sight-deluding quality of Passion the conjuror, Prajápati's creation for the allurement of the threefold world.'

For the original, see my edition of the Vásavadattú, in the Bibliotheca Indica; pp. 64-67. In the Sanskrit, every clause of this passage is accompanied by the quasific particle iva.

- 31. Thus far this stanza gestates with puns. Under my obstetrication into English, they have fallen still-born: no loss of consequence.
 - 32. More scrupulously, 'hemeronyktia.'
- 33. The sense may be, 'taking its departure during the currency of the dark fortnight;' agreeably to the reckoning which obtains to the south of the Nerbudda.
- 34. Urvará. Its resemblance to the ἄφουφα, 'fruitful plain,' of Homer and Hesiod may, or may not, be accidental.
- 35. The equivoques with which this stanza is studded are quite untranslatable; except a few at the end, which are printed in italics. What is meant, in the terminology of Hindu music, by sthána, dharma, and márga, I am at a loss to say. The last is, perhaps, 'mode.'

I understand, by the word kinnara, 'a man provoking admiration;' as the context should seem to exact this acceptation, the etymological: kim implying 'surprise,' favorable or otherwise. Kshira Swamin and Lingaya Suri, in their scholia on the Amara-kos'a, allege that 'a low man' is also imported by this compound. As designating the celestial songsters, I would suggest that 'or' interrogative rather represents its first member. Compare, on this theory, the kindred derivation of vanara, 'a monkey;' literally, 'whether a man?'

- 36. Being interpreted, 'the conqueror;' a name of Indra.
- 37. A hundred hippocausts are said to raise the mortal that offers them to the rank of Indra; who is, accordingly, agnominated s'atakratu. The drift of the text is, that Hridaya's favor for the priesthood was sig-

nalized by such munificent liberality as to enable Bráhmans, through the performance of meritorious ceremonies, to endanger the stability of the rank of Indra himself, the lord of heaven.

- 38. Analytically, 'Titan-foes of the earth;' and the foes of the Titans are the gods. The result is, 'terrestrial deities.'
 - 39. See the note on the seventeenth stanza.
- 40. An explanation of this technicality will be seen in Colebrooke's Two Treatises on the Hindu Law of Inheritance, pp. 274 and 334.
 - 41. S'ambhu is S'iva; Tarani is Súrya, or the sun.
 - 42. Or 'the propitious:' a name of S'iva.
- 43. The possessor of S'ri;' that is to say, Vishņu: S'ri, or Lakshmi, being his wife.
- 44. King Hridaya's daughter, probably. No mention of her is found elsewhere.

A note on this distich has been given above, after its original.

- 45. Or Murári, etc.; 'the enemy of Mura:' an epithet of Vishņu, who slew a demon so called.
- 46. With the astrologers, this day is the next after that so called by the theogonists: for, according to the Padma-purana and the Brahmanda-purana, the eleventh of the fortnight is the prime favorite of Vishnu, who is its regent. The second numeral of what I now read 12, at the end of the inscription, is very indistinct. To ensure certainty, it was, therefore, necessary to resort to computation. The result is, the satisfaction of knowing that 'the clerkly Jayagovinda' followed the astrologers. The date in the text answers to the fifth of June, A. D. 1667, N. S.

For convenience of reference, I subjoin a list of the tutelars of the days of the lunar fortnights; for both which they are the same.

1st.	Fire.	9th.	Gaurí.
2d.	Brahmá.	10th.	Yama.
3d.	Gaurí.	11th.	The Vis'we deváh.
4th.	Ganes'a.	12th.	Vishnu.
5th.	The serpent tribe.	13th.	Káma,
6th.	Kártikeya.	14th,	S'iva.
	The Sun.	15th.	The Moon.
8th.	S'iva.		

The pitri-gana, or bands of manes, preside over the conjunction.

47. The heroic measure, according to its prescribed scheme, is strophic. Yet, as regards the adjacent pairs of its verses, all material deviations from the canons laid down in the S'ruta-bodha—such as, when the fourth syllable is long, of elongating, at pleasure, the fifth—are confined, usually, if not universally, to the third hemistich. This is the case, for instance, throughout this inscription. Thus: the first hemistich, conformably to the ancient rule, everywhere exhibiting an epitrite, in s'l. 1, 46, 47, 51, and 52, the third ends, after a long syllable, with a fourth pæon; in s'l. 13 and 45, with a dispondee; and, in s'l. 49, with a choriamb.

While usage allows greater freedom to at least the third hemistich of the heroic measure, in its latter half, than is accorded by the S'rutabodha, it refuses to avail itself of much of the liberty which that work silently permits in the first halves of the distichs generally. The middle syllables are not found to be a pyrrhic in any of them; and the closing two, in the second and fourth, are never an iamh.

M. Lancereau's section on the s'loka, though correctly representing the intent of his author, does not, therefore, give an account of actual

custom. See his Sroutabodha, p. 26.

I here cite a portion of Professor Wilson's first description of the Anushtubh measure, from p. 436 of the last edition of his Sanskrit Grammar: "In its most regular form, the first foot is any one except a tribrach; the second may he a dactyl, a trihrach, cretic, or anapæst: the other two syllables are indifferently long or short." But the first foot is also forhidden to be a dactyl; since it is the concurrence of two short syllables as the second and third that is to he avoided. Again, in the second and fourth quarters of the stanza, the second foot may not be a dactyl or a cretic, where an amphibrach or an antibacchic has preceded. Nor are the final two syllables arbitrary. The seventh is never short, in the first and third hemistichs, unless the fourth is so; and, in the sccond and last hemistichs, it is, under no circumstances, long. Other corrections of the description just cited, and integrations of it, may be gathered from what has been said above. Nor is it intimated, by Professor Wilson, that the hemistichs of the half Anushtubh are not uniform.

It was, thus, ill-advised; in a German editor, to prefer the reading:

सुतं त्वमपि समातं सेव पुरुमवाप्नुहि.

Three of my MSS. of the S'ákuntala have q; which is, for more than one reason, most undoubtedly to be accepted. See Professor Boehtlingk's S'ákuntala, pp. 48, 214, and 289. I have in vain searched the whole of Kálidása's works for a similar license. Moreover, the older form is Púru, not Puru. Professor Wilson says that "the first vowel of Puru is short." Translation of the Rig-veda, iii. 163, third foot-note. In the Vishņu-purāṇa it is so; where, by the bye, Puru's brother is Úru, not Uru, contrarily to the learned translator. But we find Púru in the Bhágavata, and also in the Rig-veda; as Professor Wilson afterwards discovered. He does not, however, remark on his former error.

48. The Avitatha, Narkutaka, and Kokilaka contain the same number and the same disposition of feet: only the first has no cæsuras; and these pauses, in the last two, differ. Yet Sundara Upádhyáya, in his commentary on the Vritta-ratnákara, the Sugama-vritti, says that the Narkutaka and Kokilaka are two names for one measure.

Colebrooke—Miscellaneous Essays, ii. 148—has inadvertently considered the Avitatha and Narkutaka to be identical. The stanza which he prints is of the former metre, a "very uncommon" one, as he justly observes. In the Veda-stuti—Bhūgavata-purāna, x, latter section, eighty-seventh chapter—a number of instances of it are to be seen, with one stanza in narkutaka and one in kokilaka.

Saugor, March, 1858.

ARTICLE II.

TWO INSCRIPTIONS

PERTAINING TO THE

PARAMÁRA RULERS OF MÁLAVA:

THE SANSKRIT, WITH TRANSLATIONS AND REMARKS.

BY FITZ-EDWARD HALL, D.C.L.

Presented to the Society October 17, 1860.

THOUGH the kings mentioned in the memorials under notice have already been made known to the world, yet the statements which have been put forth concerning their connection and succession require to be rectified. Their names are subjoined. The comments which have been suggested with reference to them, as being by-matter, are added in the form of notes.

Bhoja Deva.
Udayáditya Deva.²
Naravarma Deva.
Yas'ovarma Deva.
Ajayavarman.³
Vindhyavarman.
Subhaṭavarman.
Arjunavarma Deva.
A.D. 1211–1215.

Devapála Deva was reigning, as I have brought to light in another paper, in the year 1353 of our era, at Dhárá. This city had been the royal seat of the last Bhoja, about three hundred years before; and likewise that of Yas'ovarman, in 1143. Jayavarman dates one edict from Vardhamánapura; and Arjuna publishes another at Mandapa. But these two places may have served only for temporary residence.

The copper-plates containing the following inscriptions are deposited in the library of the Begum's school at Sehore in Bhopal,

where I examined them in February of last year.

Inscription No. I.

म्रोम्। नमः पुरुषार्थचूडामणये धर्माव।

प्रतिबिम्बनिभार् भूमेः कृवा साज्ञात् प्रतिग्ररुम्। तगराक्कारयन् दिश्याद् दितेन्द्रो मङ्गलानि वः॥१॥ जीवात् परश्रुरामो ज्सी चत्रैः चुमां रणाक्**तैः।** सन्ध्यार्कबिम्बमेवोवीिंदातुर्यस्यैति ताम्रताम् ॥२॥ येन मन्दोदरीबाष्यवारिभिः शमितो मृधे। प्राणिश्वरीवियोगाग्निः स रामः श्रेयसे उस्तु वः॥३॥ भीमेनाजी धृता मूर्धि यत्पादाः स युधिष्ठिरः। वंशाखेनेन्द्रना जीयात् स्वतुल्य इव निर्मितः॥४॥ पर्मार्कुलोत्तंसः कंसजिन्मक्मा नृपः। श्रीभोजदेव इत्यासीन् ना सीरक्रात्तभूतलः॥५॥ यचशश्चन्द्रिकोचोते दिगुत्सङ्गतरङ्गिते। दिषत्रृपयशःपुञ्जपुएउर्राकैर्निमीलितम् ॥ ६॥ ततो अ्राइद्यादित्यो नित्योत्साक्ष्विकौतुकी। म्रसाधारणवीरश्रीरश्रीहेतुर्विरोधिनाम् ॥०॥ मकाकलक्कल्पाते यस्योद्दामभराष्ट्रगैः। कति नोन्मूलितास्तुङ्गा भूभृतः कठकोल्बणाः॥६॥ तस्माच् हिन्नदिषन्मर्मा नरवर्मा नराधिपः॥ धर्माभ्युद्धर्णो धीमानभूत् सीमा मङ्गिभुजाम् ॥१॥ VOL. VII.

प्रतिप्रभातं विष्रेभ्यो दत्तीर्प्रामपदैः स्वयम्। अनेकपदतां निन्धे धर्मी येनैकपादिष ॥१०॥ तस्याप्जनि यशोवमी पुत्रः चत्रियशेखरः। तस्माद्तववर्माञ्भूद् जवश्रीविश्रुतः सुतः॥११॥ तत्सू नुर्विर्मूर्धन्यो धन्योत्पत्तिरज्ञायत । गुर्तरोच्छेदनिर्बन्धी विन्ध्यवमी महाभुतः॥१२॥ धारयोड्गतवा सार्धे द्धाति स्म त्रिधारताम्। सांयुगीनस्य यस्याऽसिस्त्रातुं लोकत्रयीमिव ॥१५॥ तस्वाज्जमुष्यावणः पुत्रः सुत्रामश्रीर्याजशिषत्। भूपः सुभठवर्मिति धर्मे तिष्ठन् मक्तितत्तम् ॥ १८॥ वस्व ज्वलित दिग्जेतुः प्रतापस्तपनयुतेः। दावाग्निच्ह्द्मनाज्घाजि गर्जन् गुर्जर्यत्तने ॥१५॥ देवभूयं गते तस्मिन् नन्दनो ज्ज्नभूपतिः। दोला धत्ते ज्युना धात्रीवलयं वलयं यथा॥१६॥ बाललीलाक्वे यस्य जयसिंके पलायिते। दिक्पालकामव्याजेन यशो दिन्तु विजृम्भितम्॥१७॥ काव्यगान्धर्वसर्वस्वनिधिना येन साम्प्रतम्। भारावतार्णं देव्याश्चक्रे पुस्तकवीणयोः॥१८॥ येन त्रिविधर्वीरेण त्रिधा पद्यवितं यशः। धवलवं द्ध्स्त्रीणि जगित कथमन्यथा॥११॥

स रूष नर्नायकः सर्वाभ्युद्यी पगाराप्रतिज्ञागर्णके नर्मटोत्तरकूले कृषिणावर्यामे पूर्वराजदत्तावशिष्टायां भूमौ समस्तराजपुरुषान् ब्राव्हाणोत्तरान् प्रति निवासि-पटृकिलजनपदादींश्च बोधयति।

श्रस्तु वः संविदितं यथा श्रीमदमरेश्वरतीर्थावस्थितर-स्माभिर्दिसप्तत्यधिकदादशशतसंवत्सरे भाद्रपदपौर्णमास्यां चन्द्रोपरागपर्वणि रेवाकपिलयोः सङ्गमे स्नावा भगवतं भवानीपतिमोङ्गारं लन्मीपतिं चक्रस्वामिनं चाऽभ्यर्च्य संसारस्याऽसारतां दृष्ट्वा। तथाहि।

वाताभ्रविभ्रमिदं वसुधाधिपत्यम् ग्रापातमात्रमधुरो विषयोपभोगः। प्राणास्तृणायजलविन्द्रसमा नराणां धर्मः सखा परमको परलोकयाने॥

रति सर्व विमृश्याग्दष्टफलमङ्गीकृत्य मुक्तावस्यूस्या-निर्वानर्गताय वाजसनेयशाखाध्यायिने काश्यपगोत्राय काश्यपावत्सार्नेधुवेतित्रिप्रवराया ग्व्यसियकदेल्क्प्रपी-त्राय पण्डितसोमदेवपौत्राय पण्डितजैत्रसिंक्पुत्राय पुरो-क्तिपण्डितश्रीगोविन्दशर्मणे ब्राक्तणाय भूमिरियं च-तुःकङ्कठविश्वद्या सवृत्तमालाकुला सिक्र्ण्यभागभोगा सोपरिकर्ष्यृद्यायलवणाद्येत्यादिसर्वाद्यसमेता सनि- धिनिचेपा मातापित्रोरात्मनश्च पुण्ययशोभिवृद्धये चन्द्रा-कीर्णविचितिसमकालं यावत् प्रया भन्त्या शासनेनो-दकपूर्वे प्रदत्ता।

तन् मवा तित्रवासिपदृक्तिलजनपदैर्यथादीयमानभागभी-गकरिहरण्यादिकमाज्ञाविधेयैर्भूवा सर्वममुष्मै दातव्यम् । सामान्यं चैतत्पुण्यपत्तं बुधायसमढंशजैरन्यैरपि भावि-भोक्तृभिरस्मत्प्रदत्तधर्मादायो य्यमनुमत्तव्यः पालनीयश्च । उक्तं च ।

बङ्गभिर्वसुधा भुक्ता राजिभः सगरादिभिः। यस्य यस्य यदा भूमिस्तस्य तस्य तदा फलम्॥१॥ स्वद्त्तां परदत्तां वा यो क्रेत वसुन्धराम्। स विष्ठायां कृमिर्भूबा पितृभिः सक् मज्जिति॥१॥ सर्वानेवं भाविनो भूमिपालान्

भूयो भूयो ग्राचते रामचन्द्रः। सामान्यो ज्यं धर्मसेतुर्नराणां काले काले पालनीयो भवद्गिः॥३॥ इति कमलदलाम्बुबिन्डलोलां श्रियमनुचित्य मनुष्यजीवितं च। सकलिंदमुदाकृतं च बुधा न क्षि पुरुषैः परकीर्तयो विलोण्याः॥४॥ इति। संवत् १५७६ भाद्रपदसुदि १५ बुधे । द्व । श्रीमु ३ ।
रचितमिदं मकासान्धि॰ राजासलाखणसम्मतेन राजगुरुणा मदनेन ।
स्वक्तो ज्यं मकाराजश्रीऋर्जुनवर्मदेवस्य ।
उत्कीर्णी पं बाप्यदेवेन ।

TRANSLATION.

Om! Glory to Virtue, the frontlet-gem of the four human ends!

1. May the Lord of the twice-born—gladdener of the world, from notoriously occupying the earth, in being as it were a

shadow—bestow on you prosperity.8

2. May he, Paras'uráma, be exalted; penetrated by the Kshatras slain, in strife, by whom, in order to become donor of the earth to Bráhmans, the disk of the rising and declining sun has permanently acquired a coppery hue.

3. May Ráma—who, in battle, allayed, with the water of Mandodarí's tears, the fire of severance from the mistress of his life—

be of avail for your welfare.

4. May Yudhishthira be triumphant: whose feet even Bhíma placed upon his head, and whom the founder of his race, the moon, framed, so to speak, in the similitude of himself, for gentleness.¹⁰

5. There was a sovereign, the auspicious Bhojadeva: the ornament of the Paramára lineage; in glory, a Kansajit; 11 a man

whose ploughs overpassed the face of the earth; 12

6. The moonlight of whose fame having irradiated the undulating ridges of the quarters, the lilies of the abundant renown of hostile princes became closed.¹³

7. From him sprang Udayáditya; whose sole delight was constant enterprise; of peculiar felicity as a champion; and a source

of infelicity to his antagonists;

8. By whose arrows, discharged in fierce destructive war, how many lofty monarchs, formidable with armies, were not extirpated!¹⁴

9. Of him was born King Naravarman: who clove the vital parts of his enemies; sagacious in sustaining virtue; the limit of princes;¹⁵

10. Who, by shares¹⁶ of villages which he, every morning, himself bestowed upon Bráhmans, rendered Virtue, one footed

as it was, multiped.

11. Of him a son was born, Yas'ovarman, the frontlet of Kshatriyas. From him issued a son, Ajayavarman; renowned for his conquests and fortune.

12. Vindhyavarman was born as his son; at the head of heroes, of well-omened birth, zealous in the extinction of the Gur-

jaras, 17 long-armed.

13. Of whom, skilled in warfare, the sword, with its edge upraised, 18 as if to deliver the three worlds, assumed a triple edge.

- 14. Subsequently, his high-born¹⁹ son, King Subhatavarman, affluent as Sutráman, persevering in religious duties, incited the earth to their observance:
- 15. Of whom, conqueror of the directions, of sun-like lustre, the splendor, as it were a forest-fire, even to this day blazes, resounding, in Pattana²⁰ of the Gurjaras.

16. He having attained apotheosis,²¹ his son, King Arjuna, now sustains, with his arm, the circuit of the earth, like a bracelet:²²

17. Whose celebrity—since Jayasinha²³ took to flight in the war of his juvenile diversions—as it had been the laughter of the custodians of the quarters, extended in *all* directions:

18. Who, a repository of the entire wealth of poesy and song, fitly relieved the goddess Saraswatí of the burthen of her vol-

umes and her lute.

19. Who, possessing three descriptions of combatants,²⁴ spread abroad his renown as threefold. Else, how have the three worlds

acquired their whiteness?25

The same, a sovereign exalted above all, in respect of the land, remaining over and beyond that bestowed by former princes, in the village of Hathinávara, on the north bank of the Narmada, in the district²⁶ of Pagárá, gives notice to²⁷ all imperial officers, to Bráhmans—the eminent,²⁸ to the local village head-men,²⁹ to

his people, and to others,—

Be it known to you as follows: By us, sojourning at the holy station of the blessed Amares' wara, ³⁰ after bathing at the junction³¹ of the Revá and Kapilá, at the sacred season of an eclipse of the moon, at its full in Bhádrapada, in the year twelve hundred and seventy-two, and after worshipping the adorable lord of Bhavání, ³² Onkára, ³³ the consort of Lakshmí, and the master of the discus; ³⁴ considering the vanity of the world, as thus set forth:—

'Unstable as the storm-cloud is this delusive primacy of earth. Sweet for only the fleeting moment is the fruition of objects of sense. Like a water-drop on the tip of a spear of grass is the vital breath of men. Ah! virtue is the sole attendant on the

journey of the other world:'35___

Reflecting on all this, and electing spiritual recompense; has, from motives of the greatest piety, 36 with preliminary presentation of water, been granted, by patent; for enhancement of the merit and renown of our mother, our father, and of ourself; for duration coexistent with the moon, the sun, the seas, and the earth; to the family priest, the learned and auspicious Govinda S'arman, a Bráhman; settled at the place called Muktávasthú; 37 student of the Vájasaneya subdivision of the Veda; 38 of the stock of Kas'yapa,39 and of the three branches, Kás'yapa, A'vatsára, and Naidhruva; son of the learned Jaitrasinha, grandson of the learned Somadeva, and great grandson of Delha, maintainer of a perpetual fire;40 this land; of which the four boundaries are defined; 41 filled with fields containing trees; 42 together with money-rent, share of produce, house-tax, 43 ferry-tolls, impost on salt, and all other the like dues; and with its hidden treasure and deposits.

Mindful hereof, the resident head man of this village, and our subjects dwelling here, being observant of our behests, will deliver to him, Govinda S'arman, all charges, as they fall to be paid; namely, share of produce, taxes, rent in cash, and so forth.

Moreover, knowing the requital of this meritorious act to be common, the coming occupants of our title, born in our line, or strangers, should admit and uphold this virtuous douation by us assigned.44

And it has been said:

1. By numerous kings, Sagara and others, the earth has been enjoyed. Whosesoever, for custody, at any time, has been the soil, his, at that time, has been the fruit of even the previous bestowment thereof.45

2. He who resumes land, given by himself or given by another, transformed to a worm in ordure, grovels there with his ancestors.46

3. Thus does Rámachandra again and again conjure all these and future protectors of the glebe: 'Universal to men is this bridge of good works, liberality, and to be guarded, by you, from age to age.

4. Reckoning, 47 accordingly, good fortune and human life to be as uncertain as a bead of water on the petal of a lotos, and conscious48 that all this is appositely propounded, of a surety it behaves not men to cut short the repute of others.

Done in the year 1272, on the fifteenth of the light fortnight

of Bhádrapada, on Wednesday.49

This was executed by Madana, the king's spiritual adviser, with the approbation of Rajasalakhana, 50 chief minister of peace and war.51

This is the autograph of the great king, the auspicious Arju-'navarma Deva.

Engraved by Bápyadeva, clerk.

INSCRIPTION No. II.52

स एष नरनायकः सर्वाभ्युद्यी सावर्रिसोलेसम्बद्ध उत्तरायणोग्रामे उभुवोसक् समस्तराजपुरुषान् ब्राव्हाणो-त्तरान् प्रति निवासिपटृकिलजनपदादींश्च बोधयति।

ग्रस्तु वः श्राषाष्ठविद १५ सोमे सोमवतीर्तिर्धे स्नाबा श्रीमदर्जुनवर्मदेवेन सुपुरोधसे पण्डितगोविन्दाय महा-कालपुरमध्ये दण्डाधिपतिवासविग्रहमुदकपूर्वे प्रदत्तं प्रतोलीप्रागारसीमापर्यसम्।

संविदितं यथा श्रीभृगुकच्छ्समावासितैरस्माभिः सप्त-त्यधिकढादशशतसंवत्सरे वैशाखवदि श्रमावास्यायां सूर्यग्ररुणपर्वणि स्नावा भगवत्तं भवानीपतिमभ्यर्च्य संसारस्याऽसारतां दृष्ट्वा ।

र्ति सर्वं विमृश्याऽदृष्टफलमङ्गीकृत्य मुक्तावस्यूस्या-नविनिर्गताय वाजसनेयशाखाध्यायिने काश्यपगोत्राय काश्यपावत्सार्नेधुवेतित्रिप्रवराया ऽऽ वसियकदेल्क्प्रपी-त्राय पण्डितसोमदेवपौत्राय पण्डितजैत्रसिंक्पुत्राय पुरो-क्तिगोविन्दशर्मणे ब्राव्ह्मणाय समस्तो ऽपि ग्रामश्चतुःक-ङ्करविशुद्धः सवृत्तमालाकुलः सिक्र्एयभागभोगः सोप-रिकरः सर्वादायसमेतः सिनिधिनित्नेपो मातापित्रोरात्म- नश्च पुण्ययशोभिवृद्धये चन्द्रार्कार्णविचितिसमकालं या-वत् परया भत्त्वा शासनेनोदकपूर्वे प्रदत्तः।

तन् मवा तिन्नवासिपरृक्तिलजनपर्दर्यथादीयमानभाग-भोगकरिक्रण्यादिकं देवत्रात्सणभुक्तिवर्जमाज्ञाविधेयैभूवा सर्वममुष्मै दातव्यम्।

संवत् १२७० वैशाखविद् १५ सोमे । ह्र । श्रीमु ३ । रचितमिदं महासान्धि॰ पं॰ श्रीबिल्क्णसम्मतेन राजन गुरुणा मदनेन ।

स्वह्नस्तो ज्यं महाराजश्रीमद्रज्ञनवर्मदेवस्य। उत्कीर्णं पण्डितबाप्यदेवेन।

TRANSLATION.

This same sovereign, exalted over all, in respect of Ubhuvosaha,⁵³ in the village of Uttaráyano, appertaining to Sávaïrisole,⁵⁴ advertises all royal officials, Bráhmans—the eminent, the resident village head-man, his people generally, and others.

Be it known to you as follows: After ablution at the holy station of Somavati, on Monday, the fifteenth day of the moon's wane in A'shádha, the auspicious Arjunavarma Deva did grant, with prior presentation of water, to the excellent family priest, the learned Govinda, a ground-plot for a temple⁵⁵ to Dandadhipati, ⁵⁶ extending as far as the boundary of the edifices⁵⁷ on the main street, in the city of Mahákála. ⁵⁸

Likewise: by us; sojourning at the fortunate Bhrigukachchha,⁵⁹ after bathing at the sacred season of a solar eclipse, at the change of the moon, in the dark fortnight of Vais'akha, in the year twelve hundred and seventy; and after worshipping the divine consort of Bhavání; considering the vanity of the world, etc.:

* * reflecting on all this, and electing spiritual reward; has, from motives of the greatest piety, with initiatory gift of water,

been granted, by patent; to augment the merit and good name of our mother, our father, and ourself; for duration coexistent with the moon, the sun, the seas, and the earth; to the domestic chaplain, the learned Govinda S'arman, Bráhman; settled at the place called Muktávasthú; reader of the Vájasaneya Vaidika subdivision; of the stock of Kas'yapa, and of the three branches, Kás'yapa, A'vatsára, and Naidhruva; son of the learned Jaitrasinha, grandson of the learned 50 Somadeva, and great grandson of Delha, who maintained a perpetual fire; even the entire village aforesaid; of which the four boundaries are defined; filled with fields containing trees; together with moncy-rent and share of produce, with house-tax, including all dues, and with its hidden treasure and deposits.

Mindful hereof, the local head-man of this village, and our subjects here abiding, observant of our injunction, will disburse to him, Govinda S'arman, all charges, as they fall to be paid; to-wit, share of produce, 61 taxes, rent in money, and the rest, the per-

quisites of the gods and of Brahmans excepted.

* * * * * * *

Done in the year 1270, on Monday, the fifteenth day of the dark semi-lunation of Vais'akha.

This was executed by Madana, the king's spiritual guide, with the acquiescence of the learned and fortunate Bilhana, chief minister of peace and war.

This is the sign manual of the great king, the auspicious Ar-

junavarma Deva.

Incised by Bápyadeva, clerk.

Notes.

- 1. In the Journal of the Asiatic Society of Bengal for 1836, pp. 377 etc., is a land-grant of Arjanavarman, edited and translated by the late Mr. L. Wilkinson. In a subsequent volume, that for 1838, pp. 736 etc., this gentleman writes, pointing to that instrument: "I was about to add translations also of the other two inscriptions: but, finding that they both correspond, word for word, with that formerly sent to you, in all respects but the dates—which are later, the one only by three, and the other only by five years, than that of the former inscription—and that they both record grants by the same Rájá Arjuna, translations of them would be but an idle repetition." But the correspondence is not so close as is thus asserted. The two inscriptions referred to are those now published.
- 2. I now redeem the promise which I once made, to demonstrate that a mistake has been committed in throwing back Udayáditya to A.D. 618. Two facsimile copies of the Udaypur inscription, which I was at much pains in getting executed, have been of material aid to me towards arriving at a determination on this point.

The person for whom that wretched scrawl was indited calls himself a descendant of Udayáditya of Málava: but it is clear that, whether so or not, he knew nothing of Udayáditya's family. The word स्राबोर rightly, many in the monument adverted to, is not the name of a king. Gondala is the first regal personage whom it notices. His son seems to be Gyátá; for which quan has been printed; the vernacular corruption, perhaps, of ann, nominative of ann. श्वशिद्धलमयन, if such be the true reading, is an epithet of the doubtful Gyátá, and, by no possibility, an appellation. Udayáditya is represented as son of the last; and he is distinctly stated to have been ruling in Samvat 1116, or S'aka 981, i. e., A. D. 1059. For four hundred and forty-six years subsequently, it is alleged, the Yavanas had been in the ascendant: and this term brings us to Samvat 1562, S'aka 1447—which should be 1427 or the year 4607—not 4669, as printed—of the Kali-yuga, i. e, A. D. 1506; at which time the person at whose instance the inscription was written appears to have assumed some sort of authority. Six years later, in S'rimukha—an item wanting to Capt. Burt's copy—or A. D. 1513, he engaged in a pious transaction in honor of S'iva. His name was Ságaravarman—metamorphosed, as printed, into योगर्थमं—commonly styled Chánddeva, or Chandra Deva. Nor is S'áliváhana given as son of Udayáditya.

More might be said on the present topic: but it is enough, if I have shown that we have here to do with a thing of no importance, abstracted from its liability to beget error. See the Journal of the Asiatic So-

ciety of Bengal for 1840, pp. 545 etc.

Professor Lassen, I am told, has accepted the inscription thus disposed of, as sufficient voucher for antedating Udayáditya some four hundred and fifty years. It is scarcely credible.

Udayáditya was, very likely, in power in A. D. 1059, however reluctantly we receive the word of such as Ságaravarman, or his historicaster.

There is an inscription, still undeciphered, lying at Bliopal, in which occurs the name of Udayáditya. Its date is Samvat 1241, if I may rely on a blundering transcript of it. In another inscription, in the Bijamandira, a temple at the same place with the record just spoken of, an Udayáditya is mentioned, in a Sanskrit couplet, as having been king over Bhúpála in the S'aka year 1108, or A. D. 1186. The words are these:

भूषाले भूमिपालो अयमुद्यादित्यपार्धिवः। तनेदं निर्मितं स्यानं बसुपूर्णेश्वरैः प्रके॥

3. Mr. Wilkinson quietly assumes Jayavarman and Ajayavarman to be identical; though, in the inscriptions, each is said to have had a different successor: the former, Haris'chandra; and the latter, Vindhyavarman. To reconcile the discrepancy resulting from this confusion, he resorts to the theory that Haris'chandra "was only a prince of the royal family, and, as such, became possessed of an appanage, and not of the whole kingdom." This view, he thinks, is countenanced by the title of Haris-thanly being given to Haris'chandra. The same term, however, but dropped in the English version, is applied to his father, Lakshmivarman;

who, it should seem, if not himself a king, was the eldest son of one. Mr. Wilkinson was unaware of this faet; not having seen, apparently,

the relative inscriptions translated by Colebrooke.

Speaking of Yas'ovarman and Lakshmivarman, Colebrooke says, as touching the latter: "He did not become bis successor: for Jayavarman is, in another inscription, named immediately after Yas'ovarman; and was reigning sovereign." Miscell Essays, ii. 303. But Colebrooke was unacquainted with the after-history of the family to which they belonged.

As Lakshmivarman sat on the throne with his sire, it is reasonable to suppose that he was the first-born. His brother, Jayavarman, also speaks of himself as if a sovereign ruler. Lakshmivarman may have died while Harischandra was still a child, and Jayavarman have acted as regent on behalf of his nephew, to whom the government eventually devolved from him; if they did not administer it conjointly. Yet it is noticeable that Jayavarman granted away land, at one period, precisely as if he were the sole and substantive bead of the state. Possibly the extreme youth of his ward prevented his being named at that time.

Lakshmivarman being mentioned, by his son, under the title of HEISHIT, and not as king, it may be that he deceased during the lifetime of Yas'ovarman. Haris'chandra designates himself in a similar manner, where he would certainly have called himself, without qualification, sovereign, had he laid claim to undivided power. His complete style, in fact, is that which his father used as prince regnant. Policy, or some other motive, may have dissuaded him from the style of full royalty, his hereditary right. It may, therefore, be conjectured that

Jayavarman was still living in A.D. 1179.

The words in which Haris'chandra takes notice of his own accession are worthy of remark. Premising his ancestors, while he passes over his father, he meutions his uncle, and adds, of himself: एतस्मान पृष्टनमध्योः सस्याद्वाप्रान्ताधिपयः. In other words, he acknowledges that he had 'obtained his supreme rank by the favor of this, the very last, ruler.' Yet, notwithstanding this assertion, it will be observed that he does not unequivocally pretend to kingship. The delicacy of the distinction is truly Hindu.

If the phrase पार्मुखान be designed to indicate the succession of a son to like dignity with bis father's, a strain is put on it as regards its application to Jayavarman, provided he was not a usurper. Haris'chandra, in the body of his patent, does not say whose son he himself was: and, if he had done so, perhaps he could not have employed this formula with any more propriety; as I conceive that its strict tenor, in its most usual acceptation, is to mark connection between monarchs successively in actual possession.

Ajayavarman, being son of Yas'ovarman, must have been brother—presumably, younger brother—of Lakshmivarman and Jayavarman. His son, or grandson, eame to the chief power; but how, remains to be discovered. Of offspring of Haris'chandra and Jayavarman we hear

nothing.

Devadhara, entitled rája-putra, or 'king's son,' is found as a subscribing witness to a donative instrument of Yas'ovarman. This is all that

can be said of him at present. It may be that he was simply a Rajput, and not of the issue of Yas'ovarman.

These speculations are founded, in part, on the presumption that the sons of Yas'ovarman were not independent masters of as many distinct territories.

See the Journal of the Asiatic Society of Bengal for 1836, pp. 377 etc.; and for 1838, pp. 736 etc.: also Colebrooke's Miscellaneous Essays, ii. 297 etc.

Between Vindhyavarman and Subhatavarman a King "Amushyá-yaṇa" is interposed by Mr. Wilkinson, who mistakes an epithet for a proper name. This and several other misinterpretations are copied, without correction, by Mr. A. K. Forbes, in his Rás-málú, i. 114, 208.

I am perplexed what to make of "Wullal, the King of Oujein," who is said to have been conquered by Kumarapala of Gujerat. Kumarapala's time was between A. D. 1142 and 1173. Can it be that Ballala—as I should spell the word—was another name of Jayavarman? See the Rás-málá, i. 184-187.

That Naravarman ruled as early as A. D. 1107, we have the evidence of an inscription on marble, seen by Col. Tod. Transactions of the Royal Asiatic Society, i. 223, 226.

- 4. श्रीवर्धमानपुरसमावासान्: "from his abode at the auspicious Vardhamánapura:" an improbable idiom. Miscell. Essays, ii. 307, 309. Colebrooke's facsimile of his original leads me to believe that the right reading is श्रोवर्धमानपुरसमावासो उत्र: 'here, resident at the auspicious Vardhamánapura.' The त्र is unmistakable; and, as the ardhákára was not to be expected, there wants nothing, to bring out my wording, but the stroke which converts á into o.
- 5. This is, probably, either the original, or the Sanskritized form, of the present Mándú. We have the same word, I presume, in Káthmándu, usually derived from Káshthamandira. Whether mandapa ever means 'city,' I am unable to say. If it does, like pattand and nagara, its synonymes, it has come to be an appellation. Compare πόλις in the vulgar Romaic 'ς την πόλη, Stambol, or Constantinople.
- 6. Mr. Wilkinson errs in understanding that Haris'chandra issues a patent "from his capital of Nilagiri." The document recites that Nilagiri was the district—mandala—in which the land alienated was situate.

7. According to Hindu conception, the purpose of life is fourfold: virtue, wealth, gratification of the senses, and final blessedness. I know of no warrant for considering the third, or কাম. to imply "love of God," as Colebrooke explains it on one occasion. Digest of Hindu Law etc. (8vo. edition), ii. 382.

There is something peculiar in the salutations of nearly all the edicts, hitherto discovered, of the later rulers of Málava. In one of the grants published by Colebrooke, we find स्रोतियो उच्छुद्यस, "auspicious victory and elevation." Another of them has स्रोतियो उच्छुद्यस, 'auspiciousness, victory, and elevation.' Colebrooke seems silently to have departed, here, from his facsimile. See his Miscell. Essays, ii. 307, 308.

8. Mr. Wilkinson changes प्रतिश्चिम्ब्रिनाद् to प्रतिश्चिम्ब्रतया. Imagining the couplet to be pregnant with puns, he translates it in three different ways. The true sense which would come in place of that which he ranks as principal is, however, defeated by reading प्रतिश्चिम्ब्रतया; however we might then find something, in the verses, about eclipses of the moon; the writer of them being assumed to hold the rational opinions of Bháskara A'chárya concerning the cause of those phenomena. But it is impossible, on either lection, to extort from the passage anything applicable to the serpent S'esha.

The moon—but not here—is sometimes ealled दितन्द्र or दितराज, 'chief of the twice-born.' Its primary emanation from the eye of Atri counts as birth the first; and its extraction from the sea of milk, into

which it was cast, is its second birth.

The nineteen stanzas which commence my original are in every wise identical with as many at the beginning of the inscription translated by Mr. Wilkinson in the Journal of the Asiatie Society of Bengal for 1836, pp. 377 etc. I write with a copy before me, in manuscript, taken from his facsimile.

9. Such is a literal rendering of the scareely less awkward original.
Warriors who fall in battle are supposed, by the Hindus, to reach
Paradise through the sun.

Mr. Wilkinson, by two bold strokes, alters the Sanskrit entirely: and, after all, he entirely misapprehends the drift of his alteration. After correcting an obvious error of the press, जुगवा for जुगगा, his reading will run thus:

त्तीयात परसुरामो असी स्तत्रैः सुपपा रपाहितैः । सन्धार्कश्चिम्ब्यमेयोवी दातुर्वस्वेति तामृताम् ॥

His English of this is in these words: "May that Paras'uráma, who gave to the Bráhmans the whole earth, after it had become red as the setting sun, being drenched in the blood of the race of Kshatriyas prostrated in terrible conflicts, ever be praised." I should be disposed to substitute as follows: 'May he, Paras'uráma, be exalted; of whom, munificent, the earth—as measurable by the sun's disk throughout the turns of the day—worn by Kshatras slain in strife, assumed a coppery tint.'

- 10. Mr. Wilkinson turns the plurals धृताः and पादाः of the original into duals, धृतो and पादाः. The latter are more nicely exact, in the article of grammar; but the former are held to be more respectful.
- 11. Kansajit, 'the conqueror of Kansa,' is Krishna. As none, however, but the initiated, will be likely to look into such a paper as the present, I may dispense with indications of this sort. Hence many of the historical allusions are also left unexplained.
- 12. With the latter line of this stanza Mr. Wilkinson takes something of a liberty, in transforming it to:

श्रीभोत्रदेव इत्यासीदासीमक्रान्तभृतलः

Bhojadeva is thus made to have 'subjugated the face of the earth to its borders.' The old reudering of the above is: "He traversed the earth, in victory, even to its ocean limits."

13. The meaning is, that, since the influence of Bhoja reached to the ends of terrestrial space, all opposition vailed before him.

There is a species of lotos which shuts at night-fall.

In this couplet the earth is supposed to terminate in rugged declivities. Mr. Wilkinson alters यद्माश्चन्द्रिकोरोत to यद्माश्चन्द्रिकोर्दित.

- 14. The second half of this couplet palters with several words, to this effect: 'how many towering mountains, impregnable from their escarpments, were not eradicated!'
- 15. Herc, again, Mr. Wilkinson arbitrarily innovates, in putting মিল- for ছিল-, 'broken' for 'cleft.'

The 'limit of princes' denotes their ne plus nltra.

- 16. My authority for representing uz by 'share' is an inscription published by me in another volume of this Journal (vi. 542 etc.).
- 17. In the original, गूतर. And so the word seems to be written quite as often as गुतर. Still the latter alone is reputed correct.
- 18. The Sanskrit is here peculiar; the idiom employed being of very questionable purity.
- 19. This is the term which, as mentioned above, Mr. Wilkinson promotes to the name of a king. It is the adjective of अमुख्यायण, 'son of somebody,' an hidalgo, a cupatrid.
- 20. Or Analavata; vulgarly, Anhilwara. Without much demur, we should so understand the word; allowance being made for a fraudulent vaunt. But it would be just as permissible to render 'in the cities.' The ambiguity of the Sanskrit looks as if intentional.

According to Mr. Forbes, Subhaṭavarman contemplated an incursion into Gujerat, in the time of Bhíma II, but did not carry his design into execution. His son, it is said, was more successful. Rás-málá, i. 208.

Mr. Wilkinson, at the cost of sense and grammar, puts दावागिसुमन for दावागिस्क्याना

- 21. This implies a death of happy hopes; absorption into deity, and hence identification with him.
- 22. The frivolous equivoques of the original appear sufficiently in the English, without the necessity of comment.

23. There is a difficulty here: but, with the aid of Mr. Forbes, it may, perhaps, be solved.

Jayasinha of Gujerat—taking for granted that he is intended—reigned in A. D. 1093-1142 or 1144; whereas A. D. 1210 and 1215 are among the ascertained regnal years of Arjunavarman. But Bhima II, whose date is A. D. 1178-1214, is called, in one inscription, "a second Siddharája;" Siddharája having been the title of one of Jayasinha's ancestors. May not Bhima have been popularly called "a second Jayasinha" also? If so, there was a taunting appositeness in Arjuna's choosing to give him this designation, dropping the qualification of "second:" since the real Jayasinha aggressed on Málava, took Dhárá by storm,

defeated Arjuna's predecessor, Yas'ovarman, and carried him captive to

Analavata. Rás-málá, i. 66, 113, 114, 208.

In the inscription which Mr. Forbes speaks of at p. 66, Jayasinha appears as conqueror of "Wurwurk, the lord of Oojein;" meaning Yas'ovarman. Does "Wurwurk," (partly owing to the printer), stand for Varmarka, 'the sun of Kshatriyas?' What Mr. Forbes writes at p. 116 has not passed unnoticed.

Col. Tod says that Siddharája—his Siddharáya—took Naravarman prisoner, after seizing his capital. He adds that Siddharája "ruled from Samvat 1150 to Samvat 1201." Transactions of the Royal Asiatic Society, i. 222. Greatly preferring to trust Mr. Forbes, I believe that

Col. Tod has mixed up Naravarman with Yas'ovarman.

24. That is to say, elephantry, cavalry, and infantry. In ancient times, chariots were added as a fourth arm. They must have been disused long before the thirteenth century.

Mr. Wilkinson changes येन to तन.

25. Renown, in the Hindu typology, is of a white color.

There is a play on the word vacca, which means both 'whiteness'

and 'purity,' 'fairness.'

These stanzas, which are in the pathylvaktra measure, are, even in Hindu estimation, of rather indifferent fabric. A number of their allusions, as being of commonplace occurrence, have been left unannotated. Alike in these verses and in the rest of the inscription, the engraver of the plate has here and there omitted a visarga, and has substituted the dental sibilant for the palatal. All errors of greater moment than these are specially pointed out.

26. Pratijágaranaka, in the original. I have remarked, in a previous paper (see this Journal, vi. 531, n. 38), on the word pattalá, which I take to intend a canton or commune. That this term and pratijágaranaka are synonymes, I am indisposed to believe without further proof; especially since the latter is used as if it were the subdivision of a kingdom, next inferior to the mandala or province. See the Journal of the Asiatic Society of Bengal for 1838, p. 737; and for 1836, p. 379.

Sir H. M. Elliot, discussing the antiquity of the word pargana, as a geographical technicality, says that it is found so employed "even on an inscription dated A. D. 1210, discovered at Piplianugur in Bhopal;" and he adds a reference to the second of the land-grants just indicated. Supplemental Glossary, p. 186. Had Sir Henry taken the trouble to turn back a leaf, he would have seen that Mr. Wilkinson's "pargana" was only meant as a substitute for the Sanskrit pratijagaranaka.

- 27. I here take prati to be a preposition; though, as such, it is superfluous in its place in the sentence. It may be a distributive prefix; and, in that case, must not stand independent.
- 28. Colebrooke, in haste, twice renders bráhmanottarán by "Bráhmanas and others." Miscell. Essays, ii. 303, 309.
- 29. Paṭṭakila, which, Colebrooke says, "is probably the Paṭṭail of the moderns." Miscell. Essays, ii. 303. Professor Wilson could scarcely

have remembered this observation, when he set down patil as the original form of the word, and wrote of it as follows: "the term is principally current in the countries inhabited by, or subject to, the Marathas, and appears to be an essential Marathi word, being used as a respectful title in addressing one of that nation, or a Sudra in general: it may be derived from Pat, a water-course, the supply of water being fitly under the care of the chief person of the village; or from Pat, a register or roll (of the inhabitants, etc.) of the village." Glossary of Indian Terms, pp. 407, 408.

It is at least plausible to suppose that pattakila is a depravation, by metathesis, of pattalika. It may, then, be allied to pattala, 'canton',' which, likely enough, besides being the same with patala, was also writ-

ten pațțală: as we have both pattana and pattana for 'city.'

If this be tenable, the jurisdiction of the pattakila may have been wider formerly than it is at present; though a functionary of this sort sometimes has, even in our day, three or four villages under him. Accordingly, by the phrase 'pattakila of such and such village' would be understood an officer holding certain authority over the shire of country in which it was comprehended.

Otherwise, if we connect pattakila with patala, 'the filing of suits,' it may have denoted the magistrate presiding over a court of primary

instance.

There is still much to determine as to what is imported by patta and several of its real or apparent conjugates, when employed relatively to matters judicial.

- 30. This place has not been identified, any more than several others specified in this inscription and in that which follows. The phallus of Amares'wara lies to the west of Mount Paryanka, according to the 26th chapter of the Revá-máhátmya. Mount Paryanka is son of Vindhya, in mythology.
- 31. This junction is east of the Vaidurya mountain, in Dharmaranya, at Siddhimanwantara. It lies to the north of the Revá, or Narmadá. The Kapilá takes its rise in the highlands of Khandesh, and disembogues opposite the temple of Onkára-mandhátá, a little to the east of the "Churar." It arose from the water used at a sacrifice performed by King Vasudána. Great is the merit of dying at the confluence of the Revá and Kapilá. Again:

र्वातरेषु ये वृत्ताः पतिताः कालपर्ययः। नर्मदातोयसंस्पृष्टास्ते अपि यान्ति परां गतिन् ॥

That is to say, so efficacious is the holiness of the Narmadá, at all points throughout its length, that the very trees sprinkled by its spray are pronounced to be secure of future beatitude. Revá-máhátmya, chapters 1-15, et alibi.

- 32. This is S'iva.
- 33. In the original, the anuswára is wanting over the last syllable of this word. Onkára, or 'the syllable Om,' is, among the S'aivas, the sensible type of S'iva; among the Vaishnavas, of Vásudeva or Vishņu.

- 34. I suspect that the engraver had before him, in his written exemplar, चक्रपाणि. He has cut चक्रस्वामिनं, which, though it cannot be called altogether inadmissible, is yet anomalous.
- 35. These verses I have translated in other inscriptions. Their metre is the Vasantatilaká.
- **36.** Colebrooke mistakes this expression, पर्या भक्त्या, for पर्या भुक्त्या, "to be fully possessed." Miscell. Essays, ii. 308, 310.
- 37. This name and several others to follow are misprinted in the first inscription published by Mr. Wilkinson.
 - 38. The white Yajur-veda.
- 39. There are three such, named from Naidhruva, Raibha, and S'andila. The first is here denoted.
 - 40. A'vasathika. See Colebrooke's Miscell. Essays, ii. 305, foot-note 24.
- 41. Chatuh-kankaṭa-vis'uddha. This expression is found, among other places, in one of the inscriptions published and translated by Colebrooke. But he forgets to translate it. Miscell. Essays, ii. 301, 305. The more common phrase is chatur-ághaṭa-vis'uddha. Kankaṭa, in the sense of 'boundary,' is not in any dictionary that I have been able to consult.
- 42. Sa-vriksha-málákula. Colebrooke resolves this combination into mála, 'field,' and kula, 'abode.' He adds that "the passage may admit a different interpretation." The hint proposed by Col. Tod is

little to the purpose. Miscell. Essays, ii. 305, 306.

In the note here cited, Colebrooke gives the Sanskrit word in question for 'field' correctly. But he considers kula to be annexed to it; thus lengthening it to málá; for which there is no warrant. The last member of the compound is ákula, 'filled.' For this acceptation of the verb kula with the prefix á, as it is omitted in Professor Westergaard's Radices Sanscritæ, see my edition of the Vásavadattá, p. 249, first line, in the Bibliotheca Indica of the Asiatic Society of Bengal; and the Das'a-rúpaka, iii. 49.

43. "Superior taxes." Colebrooke's Miscellaneous Essays, ii. 312. Both renderings are tentative.

Mr. Wilkinson turns सोपरिकर into सोपस्कर.

44. Colebrooke calls a passage, almost word for word like this, a "stanza." Miscell. Essays, ii. 306; where he refers to another reading of it, at p. 318 ibid. Neither of them can be reduced to any prosodial measure.

The formula in the text has a number of shapes in prose: and it is not unusual to find something of the same kind in metre. One version

runs thus:

तदंप्रज्ञाः परमहीपतिबंधज्ञा वा पापार्पेतमनसो भुवि भाविभूपाः। य पालयन्ति मम धर्ममिमं हि सर्वे तस्यो मया विर्चितो ऽञ्जलिरेय मूर्धि ॥ 'To all future kings on earth, sprung from my race, or descendants of other monarchs, with hearts free from wickedness, I clasp my hands to my head, *praying* that they will uphold this my virtuous deed.'

I quote the ensuing verses from Colebrooke's Miseell. Essays, ii. 311:

म्रस्मत्कुलक्रममुदार्मुदाहर् हिन् मन्येश्च दानमिद्मभ्यनुमोदनीयम् । लक्ष्यास्तिउद्दलयञ्चद् ब्रुदत्निद्दलाया दानं फलं परयग्नः परिपालनं च ॥

"This donation ought to be approved by those who exemplify the hereditary liberality of our race, and by others. The flash of lightning from Lakshmi swoln with the raindrop, is gift; and the fruit is preservation of another's fame."

This import, by the bye, cannot even be extorted from the Sanskrit. Colebrooke annotates: "I have here hazarded a conjectural emendation; being unable to make sense of the text, as it stands. Perhaps the transcriber had erroneously written tundalá for tundilá; and the engraver, by mistake, transformed it into the unmeaning vandalá, which the text exhibits. Lakshmí is here characterized as a thunder-cloud pregnant with fertilizing rain."

But the facsimile has, with tolerable distinctness: -चंबलाया. I therefore construe as follows: 'This donation—a gift of fortune, fugitive as is the lightning's flash, or as a bubble—and its fruit, and the preservation of another's fame, should be respected by those who exemplify the munificent practice of our family, and by others.'

- 45. These four stanzas have often before been translated, and by myself among others. The full intent of the first couplet is something more than I formerly apprehended.
 - 46. A common addition to the above is in these words:

कृमियोनिं ततो गत्वा चाएउलेप्वभिज्ञायते।

'Then he is born in the insect tribe, and subsequently among outcastes.'

Similar denunciations are forthcoming in great variety. A selection of them is here presented:

विन्ध्याटवीष्वतोयासु शुष्ककोटर्प्यायिनः । कृष्णाह्यो अभिज्ञायन्तं भूमिदानापहारिणाः ॥

'Resumers of land-gifts are produced anew, in another birth, as black serpents, lying in arid hollows of trees, in the waterless wilds of the Vindhya.'

म्रन्यायेन हृता भूमिएन्यायेन तु हारिता। हरतो हारयतम्र दहत्यासप्तमं कुलम्।

Land appropriated inequitably, or inequitably caused to be appropriated, burns, to the seventh generation, the usurper and his agent.

श्वारानाणां सहस्रश्च तडाजानां प्रातेरिव । गवां कोटिप्रदानन भूमिहता न तुष्यति ।

'Not by laying out thousands of gardens, nor even by excavating hundreds of reservoirs, nor by the donation of ten millions of cows, is happiness assured to the confiscator of land.'

Menace and the converse are, in some cases, propounded together:

प्रसृत्याऽसन्प्रदानेन दृत्तस्याऽऽहरूपोन च। जनमप्रभृति यद् दृत्तं तत् सर्वे निष्फलं भवेत्॥ कल्पकोरिसहस्राणि कल्पकोरिशतानि च। निवमेद् ब्रह्मणो लोके भूमिदानं दृद्गति यः॥

'By withholding after promise, or by usurping what has been bestowed, all the benefactions conferred since one's birth become ineffectual.

'He, on the other hand, that grants away land will abide in the sphere of Brahma myriads of millions of cycles, or thousands of millions.'

But it is the sacerdotal class in especial which the priests would ensure from dispossession:

न विषं विषमित्याहुर्ब्रहास्वं विषमुच्यते । विषमेकाकिनं हन्ति ब्रह्मस्वं पुत्रपोत्रकम् ॥

'Poison, it is said, is not properly poison; but a Bráhman's property, wrongfully occupied, is justly so denominated: for ordinary poison destroys but one; whereas the property of a Bráhman, illegally appropriated, ruins one's children and grandchildren, as well as one's self.'

इह हि तलदलीलाचछले तीवलोके तृणिमिव लघुसारे सर्वसंसारसील्ये । अपहरत दुराजः जासनं ब्राह्मणानां नरकाहनमतीवर्तपातोत्सको यः ॥

'Triffing, in substance, as grass, is all the happiness of life, in this world of animation, transitory as the play of the clouds. Sensible of this, let that evil-minded person who longs to fall into the whirlpools of hell's profound abysses deprive Brahmans of their patents.'

The superior virtue of maintaining ancient assignments is thus insis-

ted on:

्र साचाद् दानं निरायासं सायासं दीर्धपालनम् । र अत स्वर्धयः प्राहुर्दानाद् भूयो उनुपालनम् ॥

'A gift outright involves no trouble; but long guardianship is burthensome. Hence the sages have declared that protection, as earning merit, surpasses alienation.'

Finally, the praise and the meed of liberality in general are quaintly delivered in these three stanzas:

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श्वम्रिपत्यं प्रथमं सुवर्णं भूवेष्णावी सूर्यसुताश्च मावः। लोकत्रयं तेन भवेच् च दत्तं यः काञ्चनं मां च महीं च द्यात्॥ यावन्ति सस्यमूलानि मोरोगाणि च मर्वणः। नरस्तावन्ति वर्षाणि सूर्यलोकं महीयते॥ श्वास्कोटयन्ति पितरः प्रबलन्ति पितामहाः। भूमिद्रो अस्मत्कले जातः स्वकृतं तार्यप्यति॥

'Gold is the chief offspring of fire; the earth appertains to Vishnu; and milch cattle are progeny of the sun. He, therefore, who gives away gold, kine, and land, bestows what will ensure him the benefit of the three worlds.

'For years as many as the roots of the stalks of all crops, and as the hairs of all eattle, will that man be honored in the solar sphere.

'His parents clap their hands, and his remoter progenitors augment in vigor, saying: "A giver of land has appeared in our family, and will work its redemption."

- 47. A portion of the stanza which here begins has been rendered by the Rev. Dr. Stevenson, and in a way which well exemplifies the sciolism of a certain section of Sanskrit scholars of the old school. His version is as follows: "Thus [departed he] who was nothing less than the friend of all (Vishnu), contemplating the goddess of eloquence and prosperity, as she resembled a drop of pure water resting on the leaf of the lotus; and at the same time guarding the life of man." Journal of the Bombay Branch of the Royal Asiatic Society, for April, 1842; No. iv, p. 154. Dr. Stevenson's original ended with सकलान, to which he must have mentally subjoined न, in order to make out his "friend,"
- 18. These verses likewise conclude one of the inscriptions published by Colebrooke. Where they have অ কুলো he finds a difficulty in his original, on which he remarks: "অনুমা, in the text, is an evident mistake; it should undoubtedly be অনুমা." Miscellaneous Essays, ii. 313, foot-note. This positiveness is a little unfortunate; as অনুমা sins against the metre, the Pushpitagrá.

The inscription just now referred to is one of three, published in the original, with English versions, by Colebrooke, in his Miscell. Essays, ii. 297-314. Together with transcripts of these records, in the ordinary Devanágarí, Colebrooke has given facsimile impressions of them. An examination of the latter has discovered that the learned decipherer has scarcely made them out with unfailing accuracy. The following corrections, supplementary to those which I have already noted, are confined to the more important errors, dependent on a wrong apprehension of characters. Hence I pass by the misrendering of dealer, at pp. 302 and 309.

P. 300, l. 11. For सम्मूतिपयिक-, "inhabiting," read समस्तिविपयिक-. Sec lower down the inscription, at p. 301, l. 19. The village head-men and others, 'throughout the entire realm,' are addressed. Colebrooke's

reading gives no sense. The case of the word which precedes the expression is not the genitive, but the locative of relation.

P. 300, l. 19. For समोक्य- substitute प्रामोक्य-. I remark this inadvertence, slight as it is, because Mr. Wilkinson, misled by the dental sibilant, puts समित्क्य-.

P. 301, l. 10. In lieu of -হিবিহ- the facsimile has -হিবিহ-. Colebrooke says, in a note: "Dwivid is one who studies two vedas: as Trivid; one who studies three." It is not so: and, moreover, the word in the text does not end in a consonant. Had it so ended, its final d would have become t. Colebrooke was thinking of dwivedin and trivedin. Dwiveda is an unusual equivalent of the first.

At p. 308, l. 13-15, is a couplet, printed thus:

अमत्संसार्वलगाग्रधाराधारामिनां श्रियम्। प्राप्य य न द्युस्तेषां प्रधातापः परं फलम् ॥

"Having gained prosperity, which is the receptacle of the skips and bounds of a revolving world, whoever give not donations, repentance is their chief reward."

To this interpretation a note is appended: "Valgågra-dhårå-dhårå: an allusion is probably intended to Dhårå, the seat of government of this dynasty. Valga signifies a leap; and dhåra, a horse's pace."

In order to bring out a very different result, we have only to restore the right reading, by putting चक्र for बद्धा, 'a wheel,' not "a leap." The translation will then run: 'Having gained prosperity, whose abode is the rim at the top of the wheel of the revolving world,' etc.

दयुस्तेषां is, of course, a printer's mistake for दद्स्तेषां; as द्यु:, besides not being in the original, violates the measure of the verse, and is no word.

As for बन्म for चक्न, Colebrooke had said, at p. 237: "the Núgari letters झ and च" are "very liable to be confounded." He might have added a. On his reading चराचरमूं into वरावरमूं, I have remarked elsewhere. See this Journal, vi. 532.

- 49. The mystical letters and numeral which here follow, in the Sanskrit, I must leave even as I found them. They occur again in this paper. Colebrooke ventures no explanation of the first, which is in one of the inscriptions by him deciphered. Miscell. Essays, ii. 311. ट्र might stand for ट्राक 'ambassador,' 'deputy;' but that does not help us: and there is a cyclical year entitled S'rimukha, which might be shortly represented by द्वासु; but neither does this hint an admissible explanation, since the same abbreviation is found in both the inscriptions, though dating from different years.
 - 50. Depraved from Rájasalakshana.
- 51. Expressed by an abbreviation of महासान्धिविग्रहिक. And so at the end of the next inscription as well.

- 52. The portions of this inscription which are identically common to it with the last are not repeated.
- 53. This word has no case-ending in the original. The place was, probably, a ward, or a precinct.
- 54. Perhaps this means 'the sixteen villages of Sávaïri.' सोले closely approximates to the vernacular corruption of योउपा. For an aggregation of villages similar to that here surmised, see Colebrooke's Miscell. Essavs, ii. 309.
- **55.** I thus translate व्यासविद्यह, with submission to the amendment of others.
 - 56. 'The primate of the mace;' S'iva.
 - 57. So signify क्यार and क्यार; and so, on supposition, does पामार.
- 58. This is the city of Ujjayini. Its temple of Mahákála has long been famous. Mention is made of it in the 103d chapter of the Revámáhátmya.
- 59. This place is considered to be one with Bherá Ghát, on the Nerbudda, a few miles from Jubulpoor.
- **60.** On the plate, परित्र is abridged of its final letter. At the end of the inscription, the place of the same letter, in this word, is supplied by a vertical stroke.
 - 61. Without hesitation, I have exchanged भोगभोग for भागभोग. Saugor, Central India, October, 1858.

ARTICLE III.

REMARKS

ON THE

PHENICIAN INSCRIPTION OF SIDON.

BY PROF. WILLIAM W. TURNER.

Presented to the Society October 26, 1859.

Soon after the news reached this country that the sarcophagus of Ashmunezer, King of Sidon, had been brought to Paris and deposited in the Louvre through the munificence of a distinguished cultivator and patron of Oriental learning, a request was made to Prof. Henry, the Secretary of the Smithsonian Institution, by some members of this Society, to procure, if possible, for the use of American scholars, a rubbing of the inscription on the lid, and also of that around the head of the sarcophagus. Prof. Henry addressed the Duc de Luynes on the subject, and the latter promptly and generously complied, sending to the Institution a carefully made rubbing of both inscriptions, and also a copy of his own incmoir on the subject. The copies of these inscriptions which you see before you are tracings carefully made from these rubbings; and consequently they exhibit, in their exact proportions, each line as made by the ancient sculptor of this most venerable document. Upon its great philological and historical interest it is unnecessary here to enlarge; it is sufficient to say that it consists of twenty-two perfect lines of from forty to fifty-five letters each, and that the whole number of its characters exceeds one thousand. If viewed merely as an addition to the pure ancient language of the Old Testament, its importance will be evident from the fact that it is almost exactly equivalent in extent to the tenth chapter of Genesis, or to the one hundred and fourth Psalm.

My object in the remarks to which your attention is invited will be to show what is the present state of our knowledge of the contents of the inscription, and to whose learning and labors we are indebted for this knowledge.

By way of introduction to these remarks, I will here give, in a tabular form, the names of all the writers who have published a reading and interpretation of the inscription, arranged chronologically, as near as may be, according to the dates of their respective publications, placing opposite the name of each writer the names of those of his predecessors whose interpretations he had an opportunity to consult.

Author.	Preliminary Translation.	Memoir.	Previous Interpreters consulted.
*Salisbury. *Turner. *Rödiger.	May 31, 1855. May 31, 1855		
*Dietrich and Gildemeister.	April 25, 1855	July 1855.	
*Hitzig. *Schlottmann.		Sept. 1855. End of Dec.,1855.	Rödiger, Dietrich. Rödiger, Dietrich, Hitzig, De Luynes (prelim. transl.). In his supplementary remarks (dated Apr. 26, 1856) he makes use of the memoirs of De Luynes and Ewald.
De Luynes. Ewald.	Aug. 14, 1855	Dec. 15, 1855. Jan. 19, 1855.	Salisbury, Turner, Rödiger, Dietrich,
Bargès.	Feb. 1856	. 1856.†	Hitzig. Salisbury, Turner, Rödiger, Dietrich, Hitzig, De Luynes, Ewald (?).
Munk.		April 6, 1856.	Salisbury, Turner, Rödiger, Dietrich, Hitzig, De Luynes, Barges (prelimin. transl.).
Levy.		End of Aug.,1856.	

^{*} From the copies furnished by the American missionaries.

[†] His memoir appears to have been published after that of Munk. See Munk, p. 27.

The first complete translation given to the world was a preliminary one, the concluding portion by myself, in a paper drawn up by Messrs. Salisbury and Gibbs, and printed in the New Haven Daily Palladium of May 31, 1855. This agrees in all essentiations.

tials with the versions we afterwards published.

As regards the order of arrangement of the several versions, it should be remarked that, although that of Prof. Rödiger was printed some weeks before those of Prof. Salisbury and myself, yet I have placed the two American versions first, as containing traits in common which separate them from the efforts of European scholars, in consequence of our having exchanged views freely on the subject, with the intention of making a joint affair of the interpretation, before it was generously proposed by Prof. Salisbury that my paper should be given separately.

There is one feature which disadvantageously distinguishes our productions from all the rest; it is the erroneous value given almost throughout to the character . We were led astray by Gesenius's alphabet in the Monumenta, Tab. 1, in which he has given it only the value of ,* although he had correctly read the character as in the third Athenian inscription (Tab. 10), being

guided by the accompanying Greek.

A close examination of the legends which he cites in support of this value shows that it is nowhere certain. This error runs entirely through my reading, and ought to have been avoided by an inspection of the alphabet of Judas in his Étude Démonstrative, and of pp. 33-37 of that work, where he discusses the forms of the letter 7.

We also labored under a difficulty which was shared in by Messrs. Rödiger, Dietrich, Hitzig, and Schlottmann—that of having to work upon the copies of the inscription made in haste by the American missionaries; so that those who had before them the carefully reduced fac-simile furnished by the liberality of the Duc de Luynes after the monument reached Europe, enjoyed a great advantage over us.

THE INSCRIPTION AND THE COPIES OF IT.

The copies of the Inscription to which we have access for

ascertaining its readings are the following:

Copies of the American Missionaries.—On the 3rd of April, 1855, the Secretary of the Albany Institute laid before a meeting of that body a copy of the inscription received from Dr. C. V. A. Van Dyck, a corresponding member of the Institute, and of this Society, then in Syria. This was promptly lithographed, and

^{*} Gesenius has given (from a Cilician coin) **Z** as the earliest form of Zain. Between this and the somewhat oblique form **Z** (in Cilic. H) he thinks there is a decided difference, and so regards the latter as a Yod (p. 284), although he had seen Zain in a still more oblique position in Athen. 3.

published in Vol. iv, Part 1, of the Institute's Transactions. A faithful copy accompanies Prof. Rödiger's paper in the Ztschr. der D. M. G. The U. States Magazine of the 15th of April also published a copy made from Dr. Van Dyck's manuscript.

Another MS. copy was sent by Dr. H. A. De Forest, another member of the Syrian Mission, to Prof. Salisbury. This differs somewhat from the preceding (see Prof. Salisbury, p. 229), and

generally on the side of correctness.

A third copy in MS. was sent by Dr. W. M. Thomson, also of the Syrian Mission, to Chev. Bunsen in London, who communicated it to Prof. Dietrich of Marburg. This, as published by Prof. D., is decidedly the worst copy of the whole. The fault would seem to be that of the engraver or other persons who reduced it: since it emanated from the same source as the rest. Dr. Thomson, in a letter to Prof. Salisbury, dated Oct. 5, 1855, says: "The copy from which all those sent to America, and most of those to Europe, so far as I know, were obtained, was taken by me."

The copies taken by the American missionaries were evidently made with a great deal of care, and compare favorably with many in the great work of Gesenius; yet, like all copies of unintelligible inscriptions, in which the eye and hand of the copyist are depended upon, they leave much to be desired in the way of perfect accuracy. Hence they are now entirely superseded

by the

Copies from the Duc de Luynes.—The Duc de Luynes has published, in his memoir on the subject of the inscription, a beautifully engraved copy of it, made doubtless from a photograph, and from a careful examination of the stone itself. The same plate accompanies the memoir of Munk in the Journal Asiatique; and a lithographed fac-simile that of the Abbé Bargès. The copy appended to the memoir of Ewald was, as he informs us, prepared from a photograph received from the Duc de Luynes; the same, evidently (i.e. from the same negative), that was used by the Duke himself, it being of the same dimensions.

In addition to and above all these materials for our study of this interesting monument is the rubbing, furnished by the Duc de Luynes to the Smithsonian Institution, of the inscription on the breast, and also of that around the head of the sarcophagus, of which latter no fac-simile or engraving has yet appeared.

EXTERNAL CHARACTERS OF THE INSCRIPTION.

An examination and comparison of the two forms of the inscription, that on the breast and that around the head, show us that the former consists of twenty-two lines, and the latter of six perfect lines and the commencement of a seventh. Both are written continuously, without separation of words, and without marks of interpunction or other sign of pause, except a space of over an inch in line 13, which divides the great inscription into two nearly equal parts, which, for convenience, I shall call Parts I and II. The lines are not perfectly straight, being more or less curved, especially towards the end of Part I. Those of Part II are straighter. The spaces between them are irregular, and the letters are by no means of uniform size, those in Part II being generally smaller than in Part I: thus the first \flat of \flat in line 1 is $2\frac{1}{8}$ inches in length, while that of \flat at the end of line 18 is less than $\frac{3}{4}$ of an inch. The difference in size begins immediately with Part II. The letters are also placed at variable distances apart, from half an inch to almost nothing, those in Part II being closer together than those in Part I.

In the size of its characters, and their distance apart, the head inscription agrees with the latter part of the breast inscription. The letters towards the close of the 6th line are pressed very closely together, as if for the purpose of bringing in the whole of the sentence which ends Part I. The 7th line contains only nine whole characters, which form the beginning of Part II; and it breaks off with an unfinished letter in the middle of a proper

name (אשמנעזר).

All these facts lead us to conclude, with the Duc de Luynes, that the inscription was first written out with a free hand on the stone (without any drawing of lines or measuring of letters as in modern times), and that these traces were then followed by the artisan. As the first letters of the three first lines of the breast inscription (l. 1. 1-11; 2. 1-12; 3. 1-7), are cut thicker and rougher than the rest, it is evident that the sculptor began to cut three lines at once; but, his work being unsatisfactory, he was either made to continue his task more neatly or was ex-

changed for a more skillful workman.

From the differences in execution which have been pointed out between the two portions of the breast inscription, it would appear as if it had at first terminated with Part I, Part II being added subsequently. As for the inscription around the head, the general resemblance in the size and style of its characters to those of Part II of the breast inscription leads one to conclude that it was made after this latter; wherefore, it is difficult to say, but perhaps because it was thought desirable to mark indelibly both parts of the sarcophagus as the property of its tenant. It would appear that the original intention was to copy the whole of the breast inscription; but after a few letters of the second part had been engraved, it was concluded for some reason not to add it, perhaps because the ornamental line which runs round the outside of the sarcophagus, about midway of its height, would have made an ugly division of the inscription.

It is true that a different theory has been broached as to the connection between the two inscriptions. The Duc de Luynes having reported the existence of five discrepancies between them, four of which were errors of the head inscription, Prof. Ewald suggested that it was perhaps originally intended to engrave the entire inscription around the head of the sculptured image of the deceased, as if to represent it as proceeding from his mouth, but that the errors made in it caused it to be left unfinished, and the whole to be engraved over again on the breast. An examination, however, of the rubbing of the head inscription shows that three of these errors—viz: the omissions of a letter at the end of its second and fourth lines, and at the beginning of the sixth have in reality no existence, the letters in question being found in their proper places. The mistake must have been caused by the circumstance that the rubbing from which the Duke drcw up his description was not carried far enough; this is shown, too, by the reduced engraving of a portion of the head inscription, which he has given in the side view of the sarcophagus, where a blank appears in place of the initial letter of the sixth line. Of the two remaining discrepancies, one (ממלכת for ממלכת, 1.11) is undoubtedly an error of the breast inscription, the other לאישם for כאישם, I. 5) is considered to be an error of the head inscription.

Allowing this (though not perfectly certain) to be the case, the errors are balanced, and no conclusion is to be drawn from them as to the superiority or priority of the one inscription over the other

In the breast inscription the forty-fifth character of the 6th line, a b, was evidently omitted by mistake and afterwards inserted.

The fourth letter of the 7th line of the breast inscription has its shaft slightly curved (a defect exaggerated in Ewald's copy), and has consequently been read by several interpreters as Ξ . The head inscription, however, presents us with a well formed Ξ , the letter which the context requires.

In the breast inscription there is a space partly occupied by an irregular depression between the thirty-first and thirty-second letters of the 9th line. The Duc de Luynes correctly remarks that there probably existed here a little flaw in the surface of the marble, which was passed over by the engraver; for there is no trace of any intermediate letter, and in the corresponding portion of the head inscription there is neither intermediate letter nor space.

At the bottom of the large flaw in line 17th, the Duke has also observed that we have the word אשמן, at first written erroneously, but with the tail of the first ב partially obliterated, so as

to convert it into a w: thus, .

So far we are led by a comparison of the inscriptions themselves, which shows us, among other facts, that ancient engravers were not immaculate, even in the execution of a monument of such importance as the present: so that modern scholarship is not to be denied the right of exercising a sound and sober discretion in occasionally correcting the readings they present.

On comparing with the rubbing of the breast inscription the copies of it that have been published, a variety of minor discrepancies are perceived. We will notice, however, only the

most important.

In the printed copies the thirty-fourth letter of the 7th line is a z; in the rubbing it is a perfectly plain z, the letter required. From this it is evident that the copy published by Ewald, which exhibits the same error, was not made exclusively from the pho-

tograph which he received from the Duc de Luynes.

Of the seventh letter of line 16th, at the beginning of the lamentable flaw made by the stroke of a pickaxe when the sarcophagus was exhumed, the copies present us only with the upper portion of a broken-off and almost perpendicular stroke; whereas in the inscription itself there are preserved both the upper portion of the descending shaft and the greater part of the hook of a n, making the letter perfectly certain. So, too, the printed copies represent the twenty-third letter of line 20th as entirely obliterated by a minor flaw, whereas the marble itself exhibits clearly the upper part of the letter n.

Before concluding these remarks on the external features of this inscription, I will call attention to one curious peculiarity in the forms of the Phœnician letters, which does not seem hitherto to have attracted especial attention: it is that, of those letters which have a well defined descending shaft, some turn, in descending, towards the right, and others towards the left, so that

the whole alphabet may be divided into three portions:

אר הוח סצקר אר turned to the right;
ארהוח סצקר
אר הוח סצקר
לאר לאר לאר turned to the left;
שכל מנפ ה
ש ס א א א א neutral.

If it were asked in which category it would be possible to include these last, I would answer that the might be placed in the first, and the 7, 7, and win the second. The characters of the Marseilles inscription agree precisely with ours in this respect.

The origin and significance of this peculiarity it may be difficult to explain. But the degree of fidelity with which it is retained will probably serve as a valuable test in determining the comparative age and character of inscriptions. The mere perception of the fact will evidently be of great use in identifying imperfectly formed or mutilated characters, as is exemplified in the inscription under consideration, where two rather imperfectly formed s's (l. 16. 10, 15), were read by the American copyists, and most of the interpreters who followed them, as n, and where the n of the word in l. 2. 5; 14. 31; 15. 33 (made with an upturned hook, like the n of the Marseilles inscription) is read by Schlottmann as m-mistakes which would not have been made, had the characteristic inclination of these several letters been duly observed.*

Although the inscription, as it has been remarked, was written on the marble without any attempt at perfect uniformity in the form and size of the letters, yet the work was done with such care and neatness, and the characteristic features of each letter were so well preserved, notwithstanding the slight variations in their forms, that there is no difficulty in distinguishing any of them, except in a few instances the 7 and 7. The characteristic differences of the three letters 2, 3, and 3, are well exhibited in the words ידבר (l. 2. 17-19), and ידבר (6. 27-30), where it will be seen that, while the down stroke of the z curves strongly to the left, those of the 7 and 7 are straight, and inclined in the same direction, but distinguished from each other by that of the being much longer than that of the 7. From measuring a number of examples, it would appear that the normal length of the entire down stroke of the 7 is about equal to twice the outer length of the loop; that is, that the portion below and clear of the loop is about one-half of the entire length, while in the this lower part is half as long again. These proportions, however, have been frequently departed from, and in some instances so far as to be actually reversed; so that, for instance, the in 9. 20; 14. 33; 15. 38 has the proportions of a 7, and the 7 iu 16. 29 and 18. 14 is about the proper length of a 7. Here, of course, a satisfactory explanation of the context can alone decide between the two letters, and it is chiefly on this account that the proper reading of several passages (in lines 6, 19, 21), still remains undecided.

^{*} The peculiarity of the Phænician alphabet here referred to is fully illustrated in a MS. volume, prepared by Mr. Turner, with his usual industry and thoroughness, in which different forms of the letters as presented by the inscription, to the number of three hundred and thirty-four in all, in exact fac-simile, are arranged together for comparison, under the head of the separate letters. The volume may be examined in the Library of the Society.

As has been remarked, the whole inscription is written without space or points to separate the words. Yet the correctness of our division of the words is confirmed by the observation of the Duc de Luynes, that, out of the twenty-two lines of the inscription, only four—viz: lines 5, 7, 9, 12—end in the middle of a word, while all the full lines of the head inscription end with a perfect word. In three instances—viz: lines 4, 6, 11—the conjunction is placed at the end of a line, and in one instance—l.21—at the beginning. Hence we may conjecture that it was regarded as an independent word.

READING AND TRANSLATION.

The following reading and translation of the inscription are the result of a selection made, to the best of my ability, and I trust without partiality or prejudice, from the views of all the writers enumerated.

(Here insert Transcript and Translation.)*

The principle on which credit has been assigned to the several elucidators of the inscription must here be explained. By referring to the table before given, it will be observed that the entirely original interpreters of the inscription—that is, those who had no previously published lucubrations to consult—are Salisbury, Turner, Rödiger, Dietrich and Gildemeister, and De Luynes. In those portions of the inscription where they agree, the interpretation has been regarded as their common property, and no mark of authorship is attached; but where they differ in opinion, the initials attached indicate the author or authors of the reading or translation adopted. Where another interpretation is adopted as more satisfactory than that of either of the writers named, the initial of that author is attached to it by whom it was first given to the world.

It is by no means intended to abuse your patience by going into a discussion of the value of every rendering that has been

^{*} We cannot too much regret that this important part of Mr. Turner's paper has been left a hlank by his untimely death: his nice discernment would doubtless have helped us much to see where we stand as regards the interpretation of the inscription. The fragment which follows is, however, all that we have to indicate the conclusions to which a review of the whole ground had brought him. Being but the beginning of a critical discussion of the difficult passages, which our lamented associate designed to give us at a later meeting of the Society, it was not read hy him when the previous part of the paper was presented. That Mr. Turner had carefully prepared the way for such a discussion appears from a volume in his own hand, found among his manuscripts, which exhibits in parallel lines the several interpretations of each line of the inscription; and from critical notes on each publication on the subject which had come out either in France or Germany. But it is not deemed just to his memory to submit to the public eye what he evidently regarded only as an apparatus for his own use.

suggested. A more comparison of all the published interpretations will show that the true meaning of more than three-fourths of the inscription may be regarded as perfectly clear and certain. My observations will therefore be confined to the more plausible renderings of the difficult and doubtful portions, and in remarking on them I shall endeavor to be as concise as the nature of the topic will allow.

The repetition of the date of the king's death in numeral characters, after writing it out in full—the very practice resorted to for increased certainty in modern times—shows, as Dietrich well observes, that we have here, as in the Marseilles inscription, an illustration of the commercial experience and accurate business

habits of the Phoenicians.

The first really difficult passage commences with the last end of the second line. The interpretation adopted is that of Gildemeister, who renders: 'I was snatched away before my time (comp. בלא בַּבְּרָּבְּיִרְיִה Eccl. vii. 17) among those who look for (length of) days; then was I laid to rest (בְּבְּיִרְיִה i. q. Heb. בְּבִּירִּה vi. q. Heb. בַּבְּיִרְה vi. q. Heb. בְּבִּירִה vi. q. Heb. בְּבִירִה vii. q. Heb. בְּבִּירִה vii. q. Heb. בְּבִירִה vii. q. Heb. בְּבִּירִה vii. q. Heb. בְבִּירִה vii. q. Heb. בְּבִּירִה vii. q. Heb. בְבִּירִה vii. q. Heb. בְּבִּירְה vii. q. Heb. בְּבִירְה vii. q. Heb. בְבִּירִה vii. q. Heb. בְבִּירְה vii. q. Heb. בְבִירְה vii. q. Heb. בְבְיּרְה vii. q. Heb. בְבְירְה vii. q. Heb. בְבְירְה vii. q. Heb. בְבְירְה vii. q. q. Heb. בברְירְה vii. q. q. Heb. בברְירְה vii. q. Heb. בברְיר

The word אָכְּמִי אָרָ in line 4, has been variously explained; but the only interpretations which seem to require notice here are those which derive it from the Talmudic אַבָּר, and render 'my curse, imprecatory prohibition, or adjuration,' or which regard it as the Syriac אַבְּמִי אָת כֵּל מִמֵּלְכֵּת 'The words 'The words', "says Munk, "evidently begin a new sentence, and can by no means be attached to what precedes, as several interpreters have thought, for it is perfectly evident that here, as in lines 6, 10, 11, 20, the word אַבְּמִי וֹ is opposed to אַבְּמִי אַנְּמִי אָנִי וֹ בְּמִּלְּכֵּת 'person,' and of translating אָבְּמִי by 'my person, myself.'" The word אַבְּמִי מִמְלַכְּת figures in the Mishna among different expressions used in making vows or oaths, and which, according to the statement of the Talmudists, were borrowed from the language of the heathen (Babyl. Talmud, tract Nedarim, fol. 10). Hence nothing is more

natural than to render קממי by 'my adjuration,' the suffix showing that we have a substantive here. It was first suggested by Prof. Ewald that the word ממלכת is not to be taken precisely in the sense of the Hebrew ממלכת 'kingdom,' as it had been by preceding interpreters, but rather in that of 'magistracy,' i. e. 'magistrates.' This idea, that the word denotes a superior class of persons, in opposition to the common people, has been adopted by all the subsequent interpreters, who render variously 'royal persons' (Bargès), 'royal race' (Munk), 'nobility,' i. e. 'nobles' (Levy). Munk says: "The word מבלכת designates the 'royal family' or all those in authority, to whom are opposed the 'common people,' designated by the term מושל to שבל אוני ווא ישורם (Ps. xlix. 3) and to אונים (Prov. viii. 4)."

The best explanation of the obscure passage after the words in line 5, appears decidedly to be that of Prof. Dietrich, who renders: 'nor seek with us treasures, as with us there are no treasures.' The expression בן, i. q. Heb. בני 'by or with us,' corresponds precisely to the לל 'to us' of line 18. The word מנם he renders 'treasures,' and derives it from the Heb. ינכת 'to divide, apportion, allot;' whence מֵלֵי 'lot, fortune,' and 'portion.' On this Munk observes: "The group בנמנם appears at first somewhat difficult, and has been variously interpreted. The most natural explanation, it seems to me, is that of M. Dietrich, adopted also by the Abbé Bargès. I had fixed upon it myself. before becoming acquainted with the translation of these two scholars, and M. Dérenbourg had arrived at the same solution. This concurrence of opinions seems to prove that there is more in it than a mere conjecture. Accordingly I read בן מכם, i. e. בור מנים, and render: 'let them not seek treasures by us.' The word מַנִים (plur. of מֵנֵה 'the weight of a mina') might be used to denote large quantities of silver or gold, treasures; just as in the Mishna מעות (plur. of מעה 'copper coin') is used for money The ancient historians have recorded many facts in general. which show that under certain circumstances tombs were rifled in the hope of finding treasures in them." This is fully elucidated by Dietrich, who has collected many interesting proofs of the fact, with specimens of similar adjurations in ancient epitaphs. ש is i. q. Heb. בי 'for' (so the Duc de Luynes); אר is a negative, i. q. Heb. אין used with participles, and also אי (so Dietrich), and שים pass. part. שים (Dietrich), or act. שים (Munk). As for the construction, comp. ואין איש שם על לב 'and no man layeth it to heart' Is. lvii. 1.

The great difficulty in interpreting the first portion of line 6 is how to reconcile it with the similar passage in l. 20. If we read י אל יענס גם משכב ז, considering בי as the elevated base of the sarcophagus with Dictrich, or the body deposited within it,

as suggested by myself, it is necessary to suppose an ellipsis of the particle 'or' or 'and' before the word יללת 'cover:' and if, with all the later interpreters, we regard 7 [of ==] as a suffix, and render 'let them not lay upon me the cover of another restingplace,' then the passage in line 21, 'let them not lay upon me' or burden me,' is imperfect, and requires an ellipsis which, although adopted by several, is so violent as to be altogether inadmissible. The difficulty, however, can be removed by considering to be synonymous with ללח, which its etymology as given by Dietrich readily allows, and rendering it 'top' or 'roof.' We have, then, the following terms applied to the different parts of the tomb: קבה, the excavated sepulchre or burial vault; משכב, the couch, or entire coffin, as in 2 Chron. xvi. 14 (Schlottmann contends that it is the interior space in which the body is deposited); חלת, the hollowed part forming the trough or body of the sarcophagus:

ARTICLE IV.

CONTRIBUTIONS

FROM ORIGINAL SOURCES

TO OUR KNOWLEDGE OF THE

SCIENCE OF MUSLIM TRADITION.

BY EDWARD E. SALISBURY.

Presented to the Society Oct. 27, 1859.

THE desire to know more of early Muslim history, especially as determined by the character and actions of Muhammad, has naturally directed attention, of late years, to Muslim tradition as the most important source of knowledge on this subject, next to the Kurân; and the working of this mine, with such critical tact as Weil, Sprenger, and Muir have brought to the task, has led to very valuable results. Meanwhile, however, the system of tradition developed among the Muslims themselves into a special science, and constituting one of the main foundations of their faith and jurisprudence, has been, comparatively, little dwelt upon. It seems, indeed, to have been deliberately slighted, in the praiseworthy earnestness of criticism to avoid being led by it to erroneous conclusions. Yet, without surrendering our right of independent judgment upon the veraciousness of traditionary statements, we may certainly profit by investigating the system within which they have been enshrined and handed down to us—even if it be regarded only as a manifestation of the genius and grade of scientific culture of the people to whom we are indebted for them; and as constituting an indispensable basis, whether well or ill laid, of actual doctrinal belief and legal decision in all Muslim countries—the source of multifarious laws. usages, and dogmas of the followers of Muhammad, supplementary to the Kuran, like the Jewish Mishna in relation to the Scriptures of the Old Testament. With this view are offered for consideration the following contributions to our knowledge of the science of Muslim tradition, which have been gathered from original sources, either only in manuscript or so little accessible as to

be nearly equivalent to unpublished authorities—we say, contributions, because we do not pretend to have exhausted the subject.

The sources from which we have chiefly drawn are:

1. The Sahîh of 'al-Bukhârî, in MS., being the copy numbered 28 in the Bibliothèque de M. le Bⁿ Silvestre de Sacy, Tome 3^{me}; where, however, the notice of this manuscript erroneously represents it as containing only a portion of the work. The author died A. H. 256;

Muslim's preface to his collection of traditions, 'al-Musnad' as Sahîh, lithographed at Dehli. This author died A. H. 261;

3. A treatise on the principles of tradition by the Saiyid 'Alî 'aj-Jurjânî, lithographed at Dehli in 1849-50, and prefixed to an edition of 'at-Tarmidhî traditions, 'aj-Jâmî' 'aṣ-Ṣaḥîḥ, also

lithographed at Dehli. 'Aj-Jurjânî died A. H. 816;

4. An introductory explanation of some of the technical terms of the science of tradition by 'Abd 'al-Hakk, prefixed to an edition of Mishkāt 'al-Maṣābik lithographed at Dehli in 1851–52. The author was associated with Sprenger in editing a Dictionary of the Technical Terms used in the Sciences of the Musalmans, which forms a part of the Bibliotheca Indica: these we shall refer to, in our citations, by the letters B, M, J,

and H, respectively.

Hâji Khalfah* defines the science of tradition to be the means of a discriminating knowledge of the sayings of the Prophet, together with his actions and his circumstances—and divides—and divides it into two parts: 1. the science of the reporting of tradition—which treats of the conditions under which a tradition is considered as reaching back to the Prophet, and 2. the science of the understanding of tradition—which treats of the meaning of a particular tradition, as ascertained by its language, by reference to the fixed principles of Muslim law, or by the analogy of known circumstances relating to the Prophet. The definitions and statements which we have here to present relate chiefly to the former part of the science.

The ultimate criterion of the quality of the report of any tradition is made up of the personal character and attainments of its reporters. It will be proper, then, to begin by distinguishing several grades of traditionists, as we find them stated in the Dictionary of the Technical Terms etc., already referred to:

1. the inquirer—

الطالب وهو المبتدى الراغب فبد

"the inquirer, that is, the beginner, the seeker after tradition"-

^{*} Lex., iii. 23, ed. Fluegel.

a class represented in the early times of Islâm by followers of the Prophet ardently enthusiastic for the preservation of every memorial of him, who sometimes undertook long and perilous journeys for the sake of securing a single tradition, or of hearing it from the lips of a particular reporter: the class of pupils in tradition, of every age, who of course are not relied upon for any traditional statement; 2. the traditionist—

ثم المحدّث وهو الاستاذ الكامل وكذا الشيخ والامام معناه

"the traditionist, that is, the accomplished teacher, also called the shaikh and the imam, with the same meaning"—

but whose teachings are at second hand, for the designation of this special title is more fully defined as follows:*

هو من يكون كتب وقرأ وسمع ووعى ورحل الى المداين والقرى وحصل اصولا وعلق فروعا من كتب المسانيد والعلل والتواريخ التى تقرب من الف تصنيف وقيل من تحمل للحديث رواية واعتنى به دراية

"he is.... one who has been a writer and reader of tradition, and has heard it and committed it to memory, journeying to cities and towns, and who has summed up principles, and noted special rules, from books of sustained tradition, of archæology and of history, to the number of nearly a thousand; according to another definition, one who takes up tradition as reported, and is solicitous that it should be known;"

3. the magnate in learning—

ثم لخايط وهو الذي احاط علمه بمايَّة الف حديث متنا واسنادا واحوال رواة جرحا وتعديلا وتاريخا

"the magnate in learning, who is one whose knowledge embraces both the text (اللاسناد) and the allegation of authority (اللاسناد) of a hundred thousand traditions, together with the circumstances pertaining to reporters, constituting the ground for their rejection or approval, and their history"—

differing from the traditionist only in the extent of his acquisitions in the science; 4. the responsible teacher—

ثم للحجة وهو الذى احاط علمه بتلثماية الف حديث وقال للزرى رحمه الله الراوى ناقل للحديث بالاسناد ولخدث من تحمل بروايته واعتنى بدرايته والحافظ من روى ما يصل اليه ووعى ما جتاج اليه

"the responsible teacher, that is, one whose knowledge embraces three hundred thousand traditions...according to 'aj-Jazari..., the reporter, the authoritative transmitter of tradition, while the traditionist is one who takes up tradition on its report, and is solicitous that it should

^{*} Dict. Techn. Terms, p. 282.

be known, and the memorist (الله is he who reports what reaches him, and keeps in mind whatever may be of use."

This highest class of traditionists is made up of those whose names may be properly given as authorities for tradition, and who are alone relied upon for what is called sound tradition, as distinguished from that which is fair and that which is weak.

The inquiry now arises, what are the necessary qualifications of the responsible teacher? They are, in brief, integrity (العدالة) and retentiveness (الصبط). The first of these is thus defined by J.:*

فالعدالة أن يكون الرارى بالغا مسلما عاقلا سليما من أسباب الفسف وخوارم المروة

"integrity consists in the reporter's being of full age, a Muslim, intelligent, and void of tendencies to impiety and the vagaries of opinion;" and again:

ولا يشترط الذكورة ولا للرية ولا العلم بفقهه وغريبه ولا البصر ولا العدد ويعرف العدالة بتنصيص عدلين عليها أو بالاستفاضة

"the being of the male sex is not made a condition, nor freedom, nor knowledge of the jurisprudence based upon tradition, or of any thing foreign to the subject, nor sight, nor the being one of many; and integrity is determined by the affirmation of two upright men, or by common rumor;"

and by H. as follows: †

والعدالة ملكة في الشخص تحمله على ملازمة التقوى والمروة والمراد بالتقوى اجتناب الاعمال السيّة من الشرك والفسق والبدعة وفي الاجتناب عن الصغيرة خلف والمختار عدم اشتراطه تحروجه عن الطاقة الا الاصرار عليها نكونه كبيرة والمراد بالمروة التنزه عن بعض الحسايس والنقايص التي في خلاف مقتصى الهمة والمروة مثل بعض المباحات الدنية كالاكل والشرب في السوق والبول في الطريق وامثال فلك وينبغى ان يعلم ان عدل الرواية اعم من عدل الشهادة فان عدل الشهادة مخصوص بالحر وعدل الرواية يشتمل الحجر والعبد

"integrity is an acquisition which impels the person possessing it to act with decision and manliness—meaning by 'decision' the turning away from the evil deeds of idolatry, impiety, and heresy (whether even a little fault must be avoided, is undetermined: it is preferable to regard this as not required, because exceeding the bounds of possibility; except that persistence in a small fault is inadmissible, because it constitutes a

great one), and meaning by 'manliness' exemption from certain gross-nesses and vices which shock the sensibility and judgment, for example, certain acts of sensual license, such as eating and drinking in the market, making water in the highway, and the like: it is proper to be known, also, that integrity with reference to the reporting of tradition is less restricted than integrity in testimony; for integrity in testimony is predicable only of the free man, whereas integrity in the reporting of tradition may pertain to the slave as well as the free man."

Of the other qualifications we have the following definitions. J. says:*

والصبط أن يكون متيقظا حافظا غير مغفلا ولا ساة ولا شك في حالتي التحمل والاداء فإن حدث عن حفظه ينبغي أن يكون حافظا وأن حدث عن كتابه ينبغي أن يكون عابظا له وأن حدث بالمعنى ينبغي أن يكون عارفا عارفا عالم يختل به المعنى

"retentiveness consists in the reporter's being observant and mindful, not heedless nor careless, nor dubious, whether in taking up tradition or in reciting it; for, if he gives out tradition by his memory, he must needs be mindful, and if he gives it out by his book, he must firmly hold to that, and if by the sense, he must know how to seize the sense;"

and also:

ويعرف الصبط بان يعتبر روايته بروايات الثقات المعروفين بالصبط فان وانقهم غالبا وكانت مخالفته لهم نادرة عرف كونه صابطا ثبتا

"and retentiveness is determined upon comparison of one's report with the report of reliable authorities, known for their retentiveness; so that, if he agrees with them for the most part, and rarely disagrees, he is known to be certainly retentive;"

and H. says:+

والمراد بالصبط حفظ المسموع وتثبته من الفوات والاختلال بحيث يتمكن من استحصاره وهو قسمان صبط الصدر وضبط الكتاب فضبط الصدر حفظ القلب ووعيه وصبط الكتاب بصيانته عنده الى وقت الاداء

"retentiveness signifies the retaining of what has been heard, and its being held fast from escaping or growing faint, so that it can be called up; it consists of two parts: retentiveness by mind, and retentiveness by book; retentiveness by mind comes of committing to heart and keeping in memory, and retentiveness by book results from preserving it without change against the time for reciting it."

These qualifications of the reporter are more exactly defined by the following specifications of causes by which they are vitiated, drawn from H. First, as to integrity, we read:

^{*} page 5.

اما العدالة فوجوه الطعن المتعلقة بها خمس الاول بالكذب والثاني باتهامه بالكذب والثالث بالفسق والرابع بالجهالة والحامس بالبدعة والمواد بكذب الراوى انه ثبت كذبه في للحبيث النبوي . . . اما باقرار الواضع او بغيد ذلك من القرايي وحديث المطعون بالكذب يسمى موضوعا ومن ثبت عنه تعمد الكذب في الحديث وان كان وقوعه في العبر مرة وان تاب من ذلك لم يقبل حديثه ابدا بخلاف شاهد الزور اذا تاب فالمراد بالحديث الموضوع في اصطلاح تحدثين هذا لانه ذبت كذبه وعلم ذلك في هذا للديث بخصوصه والمسيلة طنية وللحكم بالوضع والافتراء بحكم الظن الغالب وليس الى القداع واليقين بذلك سبيل فأن الكذوب قد يصدى وبهذا يندفع ما فيل في معرفة الوضع باقرار الواضع انه يجوز ان يكون كاذبا في هذا الاقرار فانه يعرف صدقه بغالب الطن ولولا فالك لما ساغ قتل المقر ولا رجم المعتنف بالزنا فافيم واما أتنهام الراوى بالكذب فبان يكون مشهورا بالكذب ومعروفًا بع في كلام الناس ولم يثبت كذبه في الله النبوي وفي حكم وواية ما يخالف قواعد معلومة صرورية في الشرع كذا قيل ويسمى هذا القسم مترواه كما يقال حديثه متروك وفلان متروك للحديث وهذا الرجل ان تاب وصحت توبته وظهرت امارات الصدق منه جازسماع للديث والذى يقع منه احيانا نادرا في كلامه غير للحديث النبوى فذلك غير مؤثر في تسمية حديثه بالموضوع والمتروك وان لانت معصية واما الفسق فالمراد به الفسف في العمل دون الاعتقاد فأن ذلك داخل في البدعة واكثر ما يستعمل البدعة في الاعتقاد والكذب وإن كأن داخلا في الفسق لكنهم عدوة اصلا على حدة لكون المعمر به اشد واغلف واما جهانة الراوي فانه ايضا سبب للطعم في الحديث لانه لم يعرف المع وذاته لم يعرف حالته وانه ثقة او غير ثقة كما يقول حدثنى رجل او اخبرنى شيخ ويسمى عذا مبهما وحديث المبهم غير مقبول الا أن يكون محابياً لانهم عدول وأن جاء المبهم بلفظ التعديل كما يقول اخبرني عدل او حدثني ثقد فغيه اختلاف والاصبح انه لا يقبل لانه يجوز أن بكون عدلا في اعتقاده لا في نفس الامر وأن قل ذلك امام حاذي قبل واما البدعة فالمواد بها اعتقاد امر محدث على خلاف ما عوف في الديد، وما جاء من رسول الله ... والمحابه بنوع شبهة وتاويل لا بطريف تحود واندار فان ذلك كفر وحديث المبتدع مردود عند الجهور وعند البعص أن كان متصفا بصدى اللهجة وصيانة اللسان قبل وقال بعصهم ان دن منكرا لامر متواتر في الشرع وقد علم بالصرورة كونه من الدين فهو VOL. VII.

· 在我不是我,我不是我不知道我看看了一个人的时间,我们就是我们就是我们就一个人的人,我们就是我们的人,我们就是一个人的人,我们也会不是一个人的人的人,我们就是

مردود وان لمريكون بهذه الصغة يقبل وان كفره المخانفون مع وجود صبط وورع وتنقوى واحتياط وصيانة والمختار انه ان كان داعيا الى بدعته ومزوجا له رد وان لمريكن كذلك قبل الا ان يروى شيئا يقوى به بدعته فهو مردود قطعا وبالجلة الابه مختلفون في اخذ الحديث من اعل البدع والاهواء وارباب المذاعب الزايغة وقال صاحب جامع الاصول اخذ جماعة من ابع الحديث من فرقة للحوارج والمنتسبين الى القدر والشيع والرفت وساير المحايث من فرقة للحوارج والمنتسبين الى القدر والشيع والرفت وساير المحاب البدع والاهواء وقد احتاط جماعة اخرون وتورعوا من اخذ الحديث من هذه الفرق ولكل منهم نيات انتهى ولا شك ان اخذ للديث من هذه الفرق يكون بعد التحري والاستصواب ومع ذلك الاحتياط في عدم الاخذ لانه قد ثبت ان هولاء الفرق كانوا يصنعون الاحاديث لترويج عدم الاخذ لانه قد ثبت ان هولاء الفرق كانوا يصنعون الاحاديث لترويج مذاهبهم وكانوا يقرون به بعد التوبة والرجوع والله اعلم

"As to integrity, there are five ways in which it is vitiated (الضعن): 1. by falsehood; 2. by suspicion of falsehood; 3. by impiety;

4. by want of information; 5. by heresy.

"By falsehood on the part of the reporter (کلب الراوی) is meant his setting up some false statement of his as part of the tradition of the Prophet either by affirmation as a deponent, or by some other such means; and the tradition of one dishonored by falsehood is called suppositious (موضوع). Whoever is proved to have purposely set up falsehood as part of tradition, although only once in his life, and notwithstanding repentance, is dishonored as a reporter of received tradition—wherein there is a difference between him and the repentant false witness. Such, then, is the signification of suppositious tradition, in the technical language of traditionists; for it consists in this, that one is known to have set up some falsehood of his, definitely, as part of the tradition of the Prophet. In case it is a question of opinion, and one is judged to have fabricated and falsified by the judgment of preponderating opinion, since that affords no means of decision and certainty, the falsifier is esteemed truthful. This is at variance with what is commonly said respecting knowledge derived from deposition, with the affirmation of a deponent, namely, that one may be false in such affirmation, and that preponderating opinion determines whether one is truthful; and, if such were not the principle [as regards testimony in court], how could it be lawful to put to death a man who affirms that he has committed murder, and not so to stone him who confesses fornication? Therefore, consider.

"With regard to suspicion of falsehood in the reporter (رائلکنب), in case one is notorious for falsehood, and generally remarked upon for it (though he may not have actually set up any falsehood of his as part of the tradition of the Prophet), and there is derived from him the report of something which is at variance with the known and essential fundamental principles of law—the same is to be said as before [that

tradition from him is not to be received]; and this subdivision is called let-alone tradition (متروف), as when one says: 'a tradition let alone,' and 'Such a one's tradition is let alone.' If the man repents, and signs of his truthfulness appear, it is allowable to hear tradition from him.

"Occasional and infrequent falsehood in what one says, irrespective of the tradition of the Prophet, although it is a thing to be abhorred, does not operate to give the name of 'suppositious' or 'let-alone' to his

traditiou.

"By impicty (الغسف) is meant impiety in conduct, not that which respects belief; for the latter has to do with heresy, and the term heresy is most commonly applied to a corrupt faith; and, although falsehood enters into impiety, yet people count that as a separate principle, because its influence in dishonoring integrity is most potent and over-

powering.

"Again, want of information respecting a reporter (جهالة الراوى) causes integrity to be vitiated, in the case of tradition, because, when one's name and personality are unknown, it is not ascertained what sort of a man he was, whether he was a reliable authority, or the contrary; as, for example, when it is said: 'a certain guarantee taught me as a tradition so and so,' or 'I learnt from a certain teacher so and so as a tradition.' Such a reporter is called doubtful (مبهم), and the tradition of a doubtful person is not to be received, unless he was a witness of the Prophet (احجابي)—for all witnesses had integrity. As to the case of a doubtful reporter's declaring the integrity of his authority in express terms—for instance, when one says: 'I learnt from a person of integrity so and so as a tradition,' or 'A reliable authority taught me as a tradition so and so,' there is difference of opinion—the soundest judgment is against receiving the tradition, because there may be the belief of integrity without its reality. If, however, such language is used by an eminent teacher possessed of nice discernment, the tradition is received.

"Heresy ("Living") is the holding to some novelty of opinion, at variance with what is recognized as a part of religion, and has come down from the Prophet of God... and his Companions, by virtue of some figurative and allegorical interpretation, not in the way of absolute denial and repudiation—which is a species of infidelity; and the tradition of a heretic is most generally rejected. Some, indeed, receive it, if characterized by truthfulness of language and guarded phraseology. Others say that, if it contradicts something often repeated in the law, and which is known to be a necessary part of religion, it is to be rejected, and, if it has not this character, that it is to be received, however discredited by opposers, provided it be reported with retentiveness, in a religious spirit, in the way of confirmation of received doctrine, and in circumspect and guarded language. It is best to reject it, in case it leans towards a heresy of the reporter, and is to him a connecting link of argument, and otherwise to receive it; yet, if one reports something whereby his heresy is in fact strengthened, it is decisively to be rejected.

"To speak more generally, eminent teachers differ as to receiving the tradition of innovating and loose sects, and of leaders in heterodox

ways of thinking. Says the author of the Jāmi 'al-'Uṣāl:* 'A number of eminent teachers of tradition have taken from the Khawārij, and from those whose distinctive names refer to their doctrine of free will (الفقر), their separation (الفقر), and their alienation (الفقر), as well as from all innovating and lax parties; while a number of others have been circumspect, and have warned against taking tradition from these parties. All have their motives.' Doubtless, tradition is taken from these parties deliberately and approvingly; yet should the practice be avoided, because it is established as a fact that these parties were once in the habit of fabricating traditions in order to give currency to their doctrines—which, indeed, used to be affirmed by themselves, after repentance and return to orthodoxy—God knows."

Next, as to retentiveness, we read as follows: †

واما وجوه الطعبي المتعلقة بالصبط فهي ايصا خمسة احدها فبط الغفلة وثانيها كثبة الغلط ونالثها تخالفة الثقات ورابعها الوهم وخامسها سوء للفظ اما فرط الغفلة وكثرة الغلط فمتقابران فالغفلة في اسماع وتحمل الجديث والغلط في الاسماع والاداء ومخالفة النقات في الاسناد او المتن تكون على اتحاء متعددة تكون مومية الشذوذ وجعلها من وجوه الطعن المتعلقة بالضبط من جهة أن الباعث على مخالفة الثقات أنما هو عدم الصبط والحفظ وعدم الصيانة عن التغير والتبديل والطعن من جهة الوهم والنسيان اللذين اخطأ بهما وروى على سبيل التوهم ان حصل الاطلاع على ذلك بقرأين داتة على وجوه علل واسباب قادحة كان الحديث معللًا وهذا اغمض علوم الحديث وادقها ولا يقوم به الا من رزق فهما وحفظا واسعا ومعرفة تامة عراتب الرواة واحوال الاسانيد والمتون كالمتقدمين من ارباب هذا الفن الى انتهى الى الدارقطني ويقال له يات بعده مثله في هذا الامر والله اعلم واما سوء الحفظ فقالوا أن المراد به أن لا يكون أصابته اغلب على خطايه وحفظه واتقانه اكثر من سهوة ونسيانه يعني ان كان خطأه ونسيانه اغلب او ساويا لصوابه واتقانه كان داخلا في سوء الحفظ فالمعتهد عليه صوابه واتقانه وكثرتهما وسوء الحفظ ان كان لازم حاله في جميع الاوقات ومدة عمره لا يعتبر بحديثه وعند بعض الحدثين هذا ايضا داخل في الشاذ وإن طرء سوء لخفظ لعارض مثل اختلال في الحافظة بسبب كبر سنَّم أو ذهاب بصره أو فوات كتبه فهذا يسمى تختلطا ها روى قبل

^{*} A critical compend of the six great collections of Muslim tradition, with explanations of unusual terms, by 'Ibn 'Athîr 'aj-Jazari, who died A. H. 606, on the basis of an earlier work of the same sort by Razîn 'al-'Abdarî; see Hâji Khalfah's Ler., iii. 33, and ii. 501.

† foll. 2, vers., and 3, rect.

الاختلاك والاختلال متميزا عما رواه بعد عذا لخال قبل وان لم يتميز توقف وان اشتبه فكذلك وان وجد لهذا القسم متابعات وشواعد ترقى من مرتبة الرد الى القبول والرححان وعذا حكم احادث المستور والمدلس والمرسل

"Again, there are five ways in which retentiveness is vitiated: 1. by excess of carelessness; 2. by great blundering; 3. by disagreement with reliable authorities; 4. by oversight; 5. by badness of memory.

"Excess of carelessness (غفلة) and great blundering (كثرة الغالئ) are allied to one another, for carelessness is predicated of the oral statement (الاسماع) of tradition, as well as of the taking of it up; while blundering has respect to the oral statement and the recitation (الاداء) of it.

"Disagreement with reliable authorities (تخافنه النقات), which respects either the allegation of authority or the text, and has various phases, promotes the violation of analogy (الشفون) in tradition; and the reason for its being set down as one of the ways in which retentiveness is vitiated, is that disagreement with reliable authorities arises only from the want of retentiveness and memory, together with lack of

care to avoid changes and substitutions.

"With respect to that vitiation of retentiveness which is owing to the oversight (النسيان) and neglect (النسيان) whereby one commits error and reports fancifully, if the publication of a tradition in such fanciful form is accompanied with evidences of pretexts, or of originating grounds which impair its force, the tradition becomes simulated (Laure). Here is the most obscure and subtle part of the science of tradition, and no one masters it who is not possessed of intelligence and an ample memory, as well as a perfect knowledge of the several grades of reporters, and of the circumstances affecting the character of allegations of authority and texts, like the great masters of the science in former times, down to 'ad-Dârakuṭni—since whose day, it is said, no one similarly proficient on this subject has appeared—God knows.

"As for badness of memory (سوء الحَفْظ), people say that by this is meant that one is not right more frequently than he goes astray, and that he does not remember and exactly know oftener than he lets slip and forgets: that is to say, if he is more habitually wrong and forgetful than right and exact, or equally so, that goes to constitute badness of memory; so that a reporter, to be relied upon, must be correct and exact in his knowledge, and possess these qualities in large measure. The tradition of one whose badness of memory is a constant circumstance of his condition, having pertained to him through his whole life, has no weight; and, in the opiniou of some traditionists, such badness of memory enters into the idea of separate tradition (الشان). If badness of memory is due to some accidental eireumstance, like diminution of the recollective faculty on account of one's great age, or the failure of one's sight, or the loss of one's books, this constitutes what is called a confused tradition (ختلت); but what one reported before his tradition became confused, and his memory was impaired, being distinguished

from that reported subsequently, is to be received: without this discrimination, there is no reaching back to the Prophet by the report of one whose memory has thus failed him; so too, in case the distinction cannot be clearly made out. If there exist imitative (متابعات), or witnessing (شواعد), traditions which answer to that which is confinsed, it is thereby elevated from the grade of rejection to that of acceptance and prevalence; as is the case, also, with the tradition of a reporter who is of questionable character (اللستور), or who disguises (اللستور)."

The disqualifying defects in a reporter, which render him untrustworthy, are also summarily presented by J. in the following passage:*

فى الجرح لا يقبل رواية من عرف بالتأهل فى السماع والإسماع بالنوم والاشتغال او من يحدث لا من اصل مصحّح او يكثر سهوة اذا يحدث من اصل مصحّح او كثرت الشواذ والمناكبر فى حديثه ومن غلط فى حديثه فبين له الغلط فأمر ولم يرجع قيل يسقط عدالته قل ابن الصلاح هذا اذا كان على وجه العناد واما اذا كان على وجه التنقير فى البحث

"Respecting confutation (الخرن). The report of one who is known to have been in the habit of falling asleep, or of being absent-minded, in the hearing read to him, or in the oral statement, of tradition, is not to be received; nor that of one who teaches tradition from an uncorrected copy, or who is very careless when he teaches from a copy which has been corrected, or who reports many separate (النسوان), or undetermined (النسوان) traditions: and whoever blunders in his tradition, and, after his blundering has been made manifest to him, holds on to it and does not abandon it, is said to have lost his integrity, provided, as 'Ibn 'as-Salâh says, he does so in the way of opposition, or of captiousness in discussion"—

to which the author adds the important remark that reliableness in a reporter was not, in his time, estimated strictly according to the specified conditions of it, as follows:†

فلا تذييل اعرص الناس في هذه الاعتمار عن مجموع الشروط المذكورة واكتفوا من عدالة الراوى بان يكون مستورا ومن ضبطه بوجود سماعة مثبتا خط موثوق به وروايته من اصل مواقف لاصل شيحة وذلك لان الحديث الصحيح والحسن وغيرها قد جمعت في كتب الايمة فلا يذهب شيئ منه عن جمعهم والقصد بالسماع بقاء السلسلة في الاسناد المخصوص بهذه الامة

^{. *} page 5.

"But, to cut the matter short, men in these times treat with slight all the specified conditions [of reliableness], and are satisfied, as regards a reporter's integrity, with his being one whose integrity is neither proved nor disproved (مستور); and, as regards his retentiveness, with the fact that what he hears read to him as a teacher (مستور) is set down in a handwriting which can be depended upon, and that his report is from an autograph corresponding to the autograph of his master—and this because the books of the eminent teachers include not only sound tradition, but also the fair, and that which is neither sound nor fair, so that all tradition whatever is gathered up; besides that the object of the teacher's hearing tradition read to him is only to perpetuate the chain of connection in an allegation of authority which has currency in a particular school."

In contrast with the laxness indicated in this last paragraph, there is even a religious importance attached to the character of the authorities for a tradition, in the following from M., which thus bears the impress of much earlier times:

باب في أن الاسناد من الدين

وحدثنا حسى بن الربيع نا حماد بن زيد عن ايوب وعشام عن الحمد ح وحدثنا فضيل عن فشآم قل وحدثنا تخلد بن حسين عن فشام عن عن محمد بو سيريون قال أن هذا العلمر دين فانظروا عمن تأخذون دينكمر حدثنا ابو جعفر محمد بن الصباح نا اسماعيل بن زكريا عي عاصم الاحول عن ابن سيرين قال لم يكونوا يسأنون عن الاسناد فلما وقعت الفتنة قالوا سمو لنا رجالكم فينظر الى اهل السنة فيوِّخذ حديثهم وينظر الى اهل البدء فلا يُوخِذ حديثهم حدثنا اسحان بن اباهيم الحنظلي انا عيسي وهو ابن يونس ثنا الاوزاعي عن سليمان بن موسى قال لقيت طأوسا فقلت حدثني فلان كيت وكيت قل أن كان مليا فخذ عنه وحدثنا عبد الله بن عبد الرحمي الدارمي انا مروان يعني ابن محمد الدمشقي نا سعيد بي عبد العزيز عن سليمان بن موسى قال قلت لطاؤس ان فلانا حدثني بكذا وكذا فقال أن كان صاحبك مليا فخذ عنه حدثنا نصر بن على الجهضمي نا الاصمعى عن ابن ابي الزناد عن ابيه قال ادركت بالمدينة مأية كلهم مأمون ما يؤخذ عنهم الحديث يقال ليس من اهله حدثنا محمد بي ابي عمر المكي نا سفیاں ہے وحدثنی ابو بکہ بی خلاد الباعلی واللفظ له قال سمعت سفیاں بن عيينة عن مسعر قل سمعت سعد بن ابراهيم يقول لا يحدث عن رسول الله صلى الله عليه وسلم الا الثقات وحدثني محمد بي عبد الله بي قهزاذ من

^{*} pages 10, 11.

اهل مرو قل سمعت عبدان ابن عثمان يقول سمعت عبد الله بن المبارك يقول الاسناد من الدين ولولا الاسناد لقال من شاء ما شاء وحدثنى محمد بن عبد الله حدثنى العباس ابن ابى رزمة قال سمعت عبد الله يقول بيننا وبين القوم القوايم يعنى الاسناد وقال محمد سمعت ابا اسحاق ابراهيم بن عيسى الطالقاني قال قلت لعبد الله بن المبارك يا ابا عند الرحمن للحديث الذي جاء أنّ من البرّ بعد البرّ أن تصلى لابويك مع صلوتك وتصوم لهما مع صومك قل فقال له عبد الله يا أبا اسحاق عمن هذا قال قلت له هذا من حديث شهاب بن خراش قال ثقة عمن قال قلت وعن الحجاج بن دينار قال ثقة عمن قال الله عليه وسلم قال يا أبا اسحاق أن بين للحجاج بن دينار وبين النبي صلى الله عليه وسلم مفاوز تنقطع فيها اعناق المطي ولكن ليس في الصدقة اختلاف

" Chapter on the Allegation of Authority, as a Matter of Religion.

"Hasan Bin 'ar Rabi' tells us for a tradition, saying: 'We are informed by Hammâd Bin Zaid, on the authority of 'Aiyûb and Hishâm, on the authority of Muḥammad, as follows'—and Fudhail tells us for a tradition, on the authority of a saying of Hishâm, as follows—and Maklad Bin Husain tells us for a tradition, on the authority of Hishâm, on the authority of a saying of Muḥammad Bin Sirîn: "This science is a religion: beware, then, on whose authority ye take up your religion."

"Abû-Ja'far Muḥammad Bin 'as-Sabbāh tells us for a tradition, saying: 'We are informed by 'Ismā'îl Bin Zakariyâ, on the authority of 'Asim 'al-'Aḥwal, on the authority of a saying of 'Ibn Sirîn: "People were not accustomed to ask about the support; but after there came to be dissension among them, some said: 'Name to us your guarantees (احدال),' and so those who held to the orthodox traditional law were respected, and their tradition was taken up, while care was taken not to take up the tradition of heretics."'

"Ishāk Bin Ibrāhîm 'al-Hanzali tells us for a tradition, saying: 'We are informed by 'Îsa, the son of Yûnus, saying: "'Al-'Auzâ'î tells us for a tradition, on the authority of a saying of Sulaimân Bin Mûsa: 'I met Tâ'us, and said: "Such an one tells me for a tradition so and so;" said he: "If he is diligent to perform all the duties of religion, take up

tradition on his authority."

"'Abdallah Bin 'Abd 'ar-Raḥmân 'ad-Dârimî tells us for a tradition, saying: 'We are informed by Marwân'—he means 'Ibn Muhammad 'ad Dimashkì—'saying: "We are informed by Sa'îd Bin 'Abd 'al-'Azîz, on the authority of a saying of Sulaimân Bin Mûsa: 'I said to Tâ'us: "Such an one tells me for a tradition so and so;" said he: "If thy teacher is diligent to perform all the duties of religion, take up tradition on his authority."

"Naṣr Bin'Ali 'aj-Juhdhâmî tells us for a tradition, saying: 'We are informed by 'al-'Aṣma'i, on the anthority of 'Ibn 'Abu-z-Zinad, on the

authority of a saying of his father: "I saw at Madinah a hundred persons, all believers, on whose authority tradition was not taken up—of whom it was said that they were not the people to transmit tradition."

"Muḥammad Bin 'Abû-'Umar 'al-Makkî tells us for a tradition, saying: 'We are informed by Sufyan, as follows—and 'Abû-Bakr Bin Khallad 'al-Bahilî tells us for a tradition, in his own words, saying: "I heard Sufyan Bin 'Uyainah say on the authority of Mis'ar: 'I heard Sa'ad Bin 'Ibrahîm say: "Only reliable authorities give out tradition which has the authority of the Messenger of God...".'

"Muhammad Bin'Abdallah Bin Kulızadh, an inhabitant of Marv, tells us for a tradition, saying: 'I heard 'Abdallah Bin 'al-Mubarak say: "The allegation of authority is a matter of religion; and, were it not for this support, whoever pleased would say whatever he pleased."

"Muhammad Bin'Abdallah tells us for a tradition, saying: 'It is told to me for a tradition by 'al-Abbas 'Ibn 'Abba-Rizmah, saying: "I heard 'Abdallah say: 'Between us and our enemies there are the standards'—

meaning the allegation of authority."'

"Muḥammad also says: 'I heard 'Abû-'Ishâk 'Ibrâhîm Biu 'Îsa 'aṭ-Ṭâlakânî say: "I said to 'Abdallâh Bin 'al-Mubàrak: 'O 'Abû 'Abd 'ar-Raḥmân, what of the tradition handed down to us in the words: "It ever pertains to piety that thou shouldst pray for thy parents in thy prayer, and fast for them in thy fasting"?" Whereupon 'Abdallâh said to him: "O 'Abû-Ishâk, on whose authority is this?" "to which," said 'Abdallâh: 'A reliable authority—on whose authority does he give it?' to which I replied: 'It is on the authority of 'al-Ḥajjâj Bin Dînâr;' said 'Abdallâh: 'A reliable authority—on whose authority does he give it?' to which I replied: 'That of the Messenger of God . . .;' said 'Abdallâh: 'O 'Abû-Ishâk, between 'al-Ḥajjâj Bin Dînâr and the Prophet . . . there are deserts in which the beast's supply of water fails him,'* though no one disputes the truthfulness of that reporter.'"'

This passage is followed, in Muslim's introduction, by a chapter of traditions disproving the authority of certain individual reporters. But even so early a writer as Muslim notices a laxness in the application of the principle of dependence upon reliable authorities alone, closing that chapter as follows:†

قال ابو الحسين مسلم بن الحجاج واشباه ما ذكرنا من كلام اعل العلم في متهمي رواة الحديث واخبارة عن معايبهم نثير يطول الكتاب بذكره على استقصايه وفيما ذكرنا كفاية لمن تفهم وعقل مذهب القوم فيما قالوا من ذلك وبيتوا وانما الزموا انفسهم الكشف عن معايب رواة الحديث وناقلي الاخبار وافتوا بذلك حين سيلوا لما فيه من عظيم الحطر الدالك حين سيلوا لما فيه من عظيم الحطر الدالخبار في امر الدين انا تاتى بالحليل او تجريم او امر او نهى او ترغيب او ترهيب

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^{*} i. e. The break in the connection of the tradition is too wide for safe transmission. † page 20,

فذا كان الراوى لها ليس معدن للصدى والامانة ثر افدم على الرواية عنه من قد عرفه ولم يبين ما فيه نغيره فن جهل معرفته كان أثما بفعله ذلك غاشا لعوامر المسلمين اذ لا يومن على بعض من سمع تلك الاخبار ان يستعلها او يستعل بعضها ولعلها او اكثرها اكانيب لا اصل لها مع ان الاخبار الصحاح من رواية انتقات واعل القناعة اكثر من ان يضطر الى نقل من ليس بثقة ولا مقتنع ولا احسب كثيرا فن يعرج من الناس على ما وصفنا من هذه الاحاديث الضعاف والاسانيد المجهولة ويعتد بروايتها بعد معرفته بها فيها من الرهن والضعف الا ان الذي يحمله على روايتها والاعتداد بها ارادة التكثير عند العوام ولان يقال ما اكثر ما جمع فلان من الحديث وألف من العدد ومن ذعب في العلم هذا المذهب وسلك هذا الخديث فلا نصيب له فيه وكان بان يسمى جاهلا اولى من ان ينسب الى علم الفريق فلا نصيب له فيه وكان بان يسمى جاهلا اولى من ان ينسب الى علم الفريق فلا نصيب له فيه وكان بان يسمى جاهلا اولى من ان ينسب الى علم

"Says 'Abu-l-Husain Muslim Bin 'al-Hajjāj: Of remarks by traditionists respecting suspicious reporters of tradition, and of traditional statements by them with regard to the faults of such reporters, similar to those which we have cited, there are many, which it would take long to mention, in writing, even briefly. But what we have given is sufficient for one who is intelligent, and understands, from what people have said

and plainly declared, their general way of thinking.

"Yet traditionists themselves do not consider it obligatory to expose the faults of reporters of tradition, and transmitters of traditional statements, and to pronounce decisions accordingly, except when they are inquired of in respect to something involving great risk. In case traditional statements refer to a matter of religion, whatever bearing they have is to convey permission or disapprobation, command or prohibition, incitement or restraint; so that, if their reporter is not a man of fixed veracity and trustworthiness, and if objection has been made to reporting on his authority, by some one acquainted with him, and if others, having no knowledge respecting him, are not informed of the state of the case, by one's thus acting deceptively the generality of Muslims become involved in guilt—inasmuch as it is safe for no one who hears those traditional statements to use them, or any of them, because, perhaps, they or most of them are false and groundless; besides that sound traditional statements, coming from reliable reporters and persons possessed of a tranquil assurance of mind, are too numerous that there should be need of what is transmitted by reporters who are unreliable, or devoid of assurance. For myself, I think not much of those men who lay stress upon such weak traditions, and ignored supports, as we have described, and make account of reporting them, after they know their infirmity and weakness, for the mere reason that they are impelled to report them, and to make account of them, by the wish to appear to common people as multipliers of tradition, and for the sake of its being said: 'How

many traditions has such an one collected! and 'How by the thousand does such a one count traditions! Whoever proceeds on such grounds in the science, and acts thus, has no part in it, and is to be called ignorant rather than learned."

We may next consider certain stipulations respecting the modes of communicating tradition, by which additional guards to its purity are provided in the system which we aim to develope. This will throw light upon some expressions in the extracts already given, which may not have been fully understood by the reader, and naturally precedes the consideration of what relates to tradition itself. Here J. will be our first authority, whose third chapter reads thus:

في تحمل الحديث

يصبِّح النحمل قبل الاسلام وكذا قبل البلوغ فأن الحسن والحسين وابن عباس وابن الزبير تحمّلوا قبل البلوغ ولم يزل يُسمعون الصبيان واختلف في الزمن الذي يصمّ فيه السماع من الصبي قيل خمس سنّين وقيل يعتبر كل صغير تحاله فاذا فهم الخطاب ورد الجواب محتجنا سماعة وان كان دون خمس والا لم يصبّ ولتحمّل الحديث طرق الأول السماع من لفظ الشيخ انثاني انقراءة عليه التالت الاجازة ولها انواع اجازة معين لمعين كاجزتك كتاب البخاري او اجزت فلانا جميع ما اشتمل عليه فبرسي واجازة معين في غير معين كاجزتك مسموعاتي او مروياتي واجازة العموم كاجزت للمسلمين او لمن ادرك زماني والصحيح جواز الرواية بهذه الاقسام واجازة المعدوم كاجزت لمن يولد لغلان وانصحيح المنع ولوقال لغلان ولمن يولد له او لك ولعقبك جاز كالوقف والاجازة للطفل الذي فريتميز صحيحة لانها اباحة للرواية والاباحة تصم للعاقل وغيره واجازة المجاز كاجزت لك ما اجيز لي ويستحبّ الاجازة اذا كان انجيز والمجاز له من اعل العلم لانها توسّع جتاج اليه اهل العلم وينبغى للهجيز بالكتابة أن يتلقّط بها فأن اقتصر على الكتابة صحّت الرابع المناولة واعلاها ما يقرن بالاجازة وذلك بان يدفع اليه اصل سماعه او فرعا مقابلا به ويقول هذا سماعي او روايتني عن فلان اجزت لك روايته ثر يبقيه في يده تلبكا أو الى أن ينسخه ومنها ان يناول الطالب الشيخ سماعه فيتامله وهو عارف متيقظ ثر يناوله الطالب

^{*} page 6.

ويقول هو حديثى او سماى فارو عنى ويسمى هذا عرص المناولة ولها اقسام اخر التخامس المكاتبة وى ان يكتب مسموعه لغايب او حاصر بخطّه او يادن بكتبه له وي اما مقترنة بالاجازة كان يكتب اجزت لك او مجرّدة عنها وانصحيح جواز الرواية على التقديرين السادس الاعلام وهو ان يعلم الشيخ الطالب ان هذا الكتاب روايته من غير ان يقول اروة عنى والاصح انه لا يجوز روايته لاحتمال ان يكون الشيخ قد عرف فيه خللا فلا يانن فيه السابع الوجادة من وجد يجد مولّد وهو ان يقف على كتاب خطّ شيخ فيه احاديث ليس له رواية عما فيها فله ان يقول وجدت او قرأت شيخ فيه احاديث ليس له رواية عما فيها فله ان يقول وجدت او قرأت من الاتصال واعلم ان قوما شدّوا فقالوا لا حجة الا فيما رواه حفظا وقيل من الاتصال واعلم ان قوما شدّوا فقالوا لا حجة الا فيما رواه حفظا وقيل عبوز من كتابه الا اذا خرج من يده وتساعل اخرون وقالوا يجوز الرواية عنه وكذا ان غاب عنه الكتاب أذا كان انغالب من نسخ غير مقابلة باصولها والحق انه اذا ان غاب عنه الكتاب أذا كان انغالب سلامته من تغير ولا سيما اذا كان عن لا يخفى عليه تغيره غالبا

" On the Taking up (النحمة) of Tradition.

"Tradition may properly be taken up before a profession of islamism, and likewise before full age; for 'al-Ḥasan, 'al-Ḥusain, 'Ibn 'Abbās, and 'Ibn Zubair took up tradition before they had reached maturity, and youths have ever been admitted to the hearing of tradition; though there is difference of opinion as to the exact time when a youth may properly become a hearer—some saying that this may be at five years of age, and some, that the case of each young person is to be separately considered, and that, if he understands what is addressed to him, and how to answer, they approve of his becoming a hearer of tradition, although he be less than five years old, and, otherwise, that he can not properly be a hearer.

"There are several ways of taking up tradition: 1. by hearing the oral communication of a master (المساع من لفظ الشيع); 2. by reading to him (الأحازة); 3. by license (الأحازة)—of which there are several kinds: [a] license of a particular individual for something specific, as: 'I license thee for the book of 'al-Bukhârî,' or 'I license such an one for all that is in my table of contents;' [b] license of a particular individual in respect to something not specified, as: 'I license thee as to whatever I hear read to me,' or '.... as to whatever is reported by me;' [c] license of people in general, as: 'I license Muslims,' or, '....

all my cotemporaries: - and in these forms tradition is properly allowed to be reported; [d] license of a person who does not exist, as: 'I license whoever may be born to such a one'-which ought not to be admitted, though, if one says: '.... such a one and whoever may be born to him,' or '.... thee and thy posterity,' it is admissible, on the same principle as a permanent charitable bequest (الوقف): [e] license of a little child who is not marked by any maturity of mind; for maturity of mind constitutes a free permission to report, and the free permission of reporting holds good in respect to one who has not attained to years of intelligence as well as to one who has; [f] license as to what has been licensed, as: 'I license thee as to whatever has been licensed to me:' it is preferable, in the case of license, that both he who licenses and he who is licensed should be conversant with the science of tradition, because there is a looseness about this form of transmission, which requires to be controlled by persons so instructed: one who licenses by a writing does well to say off what he writes; yet, if he limits himself to the writing, that holds good; 4. by presentation of which the highest sort [a] is that accompanied with license, which consists in the master's handing to one either an autograph, or a copy therewith collated, of what he hears read to him, and saying: 'This is what I hear read' (or, 'my report'), 'on the authority of such a one, I license to thee the reporting of it;' after which he leaves it in his hands, for his own, or until he can copy it; another sort of presentation [b] consists in the inquirer's handing to the master that which he hears read to him, which the latter then dwells upon with discrimination and attention, and afterwards presents to the inquirer, saying: 'It is my tradition' (or, 'what I hear read'), 'so report on my authority'—this is called reverse presentation (عرض المناولة): and there are also other subdivisions; 5. by written communication (الكاتبة), which consists in the master's writing in his own hand, or permitting to be written, that which he hears read to him, expressly for one who is absent, or for one who is present; and is either accompanied with license, as, for example, when one writes: 'I license thee,' or without this form-to report in either mode is admissible and proper; 6. by certification (الأعلام), which consists in the master's making known to the inquirer that a certain book is his report of tradition, without saying: 'Report it on my authority'-which is not an admissible reporting of it, according to the most proper view, since there is a possibility that the master may have recognized in the inquirer some pravity, in consequence of which he does not authorize him in respect to it; 7. by discovery (البحادة)—a term of recent origin, from البحادة) which consists in one's carefully reading some book in the handwriting of a master, which contains traditions, without receiving any report of of it other than is comprised in the traditions themselves, and then saying: 'I have found' (or, 'I have read') 'in the handwriting of such an one' (or, 'in a book of such an one, in his handwriting') 'as follows: "we learn from such an one as tradition so and so"'—leaving the rest of the allegation of authority, and the text, at loose ends—a practice which has held its ground both in ancient and modern times, and

constitutes a sort of loosened tradition (المرسل), with something in it of continuousness (الانتصال).

"Some persons, be it known, are strict, and say that no legal proof can be made out from tradition not reported by memory; while others say that reporting by one's book is allowable, so long as one has it under his control. Others again are so lax as to say that one may report from copies not collated with their originals. The truth is that one becomes a reliable authority for tradition by the continued habit of taking it up, persevering effort at retention, and constant application to collating with an earlier text; and this, even if one's book is not controlled, since the probability is that it is not varied from, especially if the reporter be one who would be likely to know of any alteration of it."

The books of tradition show us a distinction of form which is supposed to refer to the mode of receiving traditional statements, in their use of the terms and in the former being appropriated, as is believed, to the case of a teacher's making an oral communication, and the latter to that of the pupil's reading to him. On this distinctive use of the two terms we quote the following from the Dictionary of the Technical Terms....*

ومنهم من رأى النفرقة بين الصيغ بحسب افتراق التحمّل فيخصون التحديث عا تلفظ به الشيخ والاخبار عا يقرأ عليه وهذا مذهب ابن جريج والاوزاعى والشافعى وابن وهب وجمهور اهل المشرق ثر احدث اتباعهم تفصيلا اخرا فن سمع وحده من لفظ الشيخ افرد فقال حدّثنى ومن سمع من غيره جمع ومن قرأ بنفسه على الشيخ افرد فقال اخبرنى وهذا مستحسى وليس بواجب عندهم وانما ارادوا التمييز بين احوال التحمّل

"There are some who think that there should be a difference in the form of reporting tradition, with reference to a distinction in the mode of taking it up, and accordingly appropriate the expression to what the master gives out orally, and it what is read to him. Such was the doctrine of 'Ibn Juraij, 'al-'Auzâ'i, 'ash-Shâfi'i, and 'Ibn Wahab, and of all the people of the West; and the later masters have originated another distinction, according to which whoever, himself alone, hears a master speak, uses the single number and says, and whoever hears as one of several uses the plural number, while he who

^{*} p. 282.
† 'Ibn Juraij died A. H. 150; 'al-'Auzâ'î, one of the teachers of 'Ibn Juraij, and a resident of Bairût, d. A. H. 151; 'ash-Shâfî'î, a native of Gaza, who became a resident of Egypt, and the founder of a school of Muslim law, d. A. H. 204; 'Ibn Wahab of Egypt d. A. H. 197. These dates are derived from the Kitâb Tabakât 'al-Hufâz (v. 9, v. 20, vii. 36) ed. by Wüstenfeld under the title Liber Classium Virorum qui Korani et Traditionum Cognit. excell, auct. Abu Abdalla Dahabio. In epit, coegit et contin. Anonymus.... Gottinguæ, 1833-34: to which we shall refer hereafter, as we may have occasion, simply as the Kitâb Tabakât.

himself reads to a master says in the singular number خبرنى—which is approved, though not necessary in the opinion of those just referred to, who only meant to distinguish between modes of taking up tradition."

In the extract from J. last given, it is stated that objection had been made by some to any reporting of tradition except by memory. We therefore present, here, from B., a statement of earlier opinion as to the propriety of reporting by the pupil's reading, and by the form called "presentation." It is to be found in that book of the Saḥîḥ which is entitled Book of the Science

+: (كتاب العلم)

باب القراءة والعرب على المحتث

وراى الحسن والثورى ومالك القراءة جايزة واحتج بعضهم في القراءة على العالم حديث ضمام بن ثعلبة قل لذى صلى الله عليه وسلم الله امرك ان نصلى الصلاة قال نعم قال فهذه قراءة على الذى صلى الله عليه وسلم اخبر ضمام قومه بذلك فاجازوه واحتج مالك بالصح يقرأ على القوم فيقولون اشهدنا فلانا ويقرأ على المقرى فيقول القارى اقرأني فلان حدثنا محمد بن الحسن الواسطى عن عوف عن الحسن قال لا باس بالقراءة على العالم وحدثنا عبيد الله بن موسى عن سفيان قال اذا قرأ على المحدث فلا باس أن يقول حدثنى وسمعت ابا عصم يقول عن مالك وسفيان القراءة على العالم وقراءته سواء حدثنا عبد الله بن يوسف ثنا الليث عن سعيد هو المقبرى عن شريك بن عبد الله بن ابى نمر انه سمع النبى صلى الله انس بن مالك رضى الله عنه يقول بينما نحن جلوس مع النبى صلى الله عليه وسلم في المسجد دخل رجل على جمل فاناخه في المسجد ثر عقله عليه وسلم في المسجد دخل رجل على جمل فاناخه في المسجد ثر عقله

^{*} page 24.

فر قال نهم ایکم محمد واننبی صلی الله علیه وسلم متکی بین ظهرانیهم فقلنا هذا الرجل الابیس المتکی فقال له الرجل یا ابن عبد المطلب فقال له النبی صلی الله علیه وسلم قد اجبتک فقال الرجل الذبی صلی الله علیه وسلم انی سایل شدی علی فی نفسک فقال سل عما انی سایل شدت علیک فی المسیلة فلا تجد علی فی نفسک فقال سل عما بدا لک فقال استانک بریک ورب من قبلک الله ارسلک الی الناس کلّهم فقال اللهم نعم قل انشدک بالله الله المرک ان نصلی الصلوات الخمس قال اللهم نعم قال انشدک بالله الله امرک ان نصوم هذا الشهر من السنة قال اللهم نعم قال انشدک بالله الله امرک ان تأخذ هذه الصدقة من اغنیاینا فتقسمها علی انشدک بالله الله امرک ان تأخذ هذه الصدقة من اغنیاینا فتقسمها علی فقراینا فقال النبی صلی الله علیه وسلم اللهم نعم فقال الرجل امنت بما جبیت به وانا رسول من وراءی من قومی وانا ضمام بن نعلبذ اخو بنی سعد بن بکر رواه موسی وعلی بن عبد الحمید عن سلیمان عن ثابت عن انس عن النبی صلی الله علیه وسلم بهذا

باب ما يذكر في المناولة وكتاب اعل العلم بالعلم الى البلدان وقل انس نسخ عثمان المصاحف فبعث بها الى الافاق ورأى عبد الله بي عمر وجميى بن سعيد ومالك ذلك جايزا واحتربج بعص اعل الحجاز في المناولة بحديث النبى صلى الله عليه وسلم حيث كتب لأمير السرية كتابا وقال لا تقرأحتي تبلغ مكان كذ وكذا فلما بلغ ذلك المكان قرأه على الناس واخبرهم بامر النبي صلى الله عليه وسلم حدثنا اسماعيل بن عبد الله حدثني ابرهيم بن سعد عن صالح عن ابن شهاب عن عبيد الله بن عبد الله بن عتبة بن مسعود أن عبد الله بن عباس رضى الله عنهما أخبره أن رسول الله صلى الله عليه وسلم بعث بكتابه رجلا وامره ان يدفعه الى عظيم الجرين فدفعه عظيم البحرين الى كسرى فلما قرأه مزّقه فحسبت ان ابن المسيب قال فدعا عليهم رسول الله صلى الله عليه وسلم أن يمزَّقوا كل مُزَّق حدثنا محمد بن مقاتل ابو الحسى انا عبد الله انا شعبة عن قتادة عن انس بن مالك رضى الله عنه قال كتب الذي صلى الله عليه وسلم كتابا أو أراد أن يكتب فقيل له انهم لا يقرِون كتابا الا مختوما فاتخذ خاتما من فصة نقشه محمد رسول الله كاني انظر الى بياضه في يده فقلت لقتادة من قال نقشه محمد رسول الله قال أنس

" Chapter on Reading to and Laying before the Teacher of Tradition.

"'Al-Hasan, 'ath-Thauri, and Mâlik* regarded the reading of tradition as allowable; and some have alleged, in favor of reading to a well-informed teacher, a tradition of Dhimâm Bin Tha'labah, who said to the Prophet...: 'Hath God commanded thee that we should pray with the prescribed form of prayer?' to which he replied: 'Yes,' and the other rejoined: 'Then is this something to be read to the Prophet—of which Dhimâm informed his people, who accordingly regarded the incident as an authoritative guide. Mâlik adduces in proof the case of a judicial sentence which is read to people, who thereupon say: 'We call such a one to witness,' or which is read to one who causes it to be read, whereupon the reader says: 'Such a one made me read.'

"Muḥammad Bin Salâm tells us for a tradition, as told by Muḥammad Bin 'al-Ḥasan 'al-Wâsiṭi, on the authority of 'Auf, from 'al-Ḥasan: 'There is no harm in reading to a well-informed teacher;' and we are told by 'Ubaidallâh Bin Mûsa, from Sufyân, as follows: 'In case one reads to the teacher of tradition, there is no harm in his saying: "Such a one tells me for a tradition;" and I have heard from 'Abu-'Aṣim, on the authority of Mâlik and Sufyân, the following: 'Reading to a well-

informed teacher and his reading are equivalent.'

"'Abdallah Bin Yusuf tells us for a tradition, as told by 'al-Laith, on the authority of Sa'id, namely 'al-Makbari, on the authority of Sharik Bin 'Abdallah Bin 'Abû-Namir, that the latter heard 'Anas Bin Malik -to whom may God be gracious!-say: 'While we were seated with the Prophet . . . in the mosque, a man entered upon a camel, which he made kneel within the mosque, and afterwards fettered, and then said: "Which of you is Muhammad?"'-the Prophet being supported in the midst of the group-'to which we replied: "This pure man who leans here." Then the man said to him: "O son of 'Abd 'al-Mutallib--" and the Prophet . . . replied: "Be sure, I will answer thee;" upon which the man said to the Prophet . . . : "I have a question to ask thee, and I insist upon an answer; so be not adverse to me," and the Prophet . . . said: "Ask about what thou wilt;" whereupon the man rejoined: "I ask thee, by thy Lord and the Lord of those before thee, hath God sent thee as a messenger to all men?" and the Prophet replied: "O God, yes;" the man said, again: "I adjure thee by God, hath God commanded thee that we should pray the five prayers?" and he replied: "O God, yes;" said the man: "I adjure thec by God, hath God commanded thee that we should fast this month of the year?" and he replied: "O God, yes;" said the man: "I adjure thee by God, liath God commanded thee to take this offering of alms from our rich men, and to divide it among our poor?" and the Prophet answered: "O God, ves." Then the man said: "I trust in thy message, and will be a messenger to those who shall come after me, of my people-and I am Dhimâm Bin Tha'labalı, a brother of the tribe of Sa'ad Bin Bakr"'—a

^{*&#}x27;Ath-Thaurî, of Kûfah, died A. H. 169; Mâhk Bin 'Anas of Hîrah, the founder of one of the schools of Muslim law, who is probably the Mâlik here mentioned, died A. H. 179. See Kitâb Tabakât, v. 40, 41.

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tradition which is reported by Mûsa and 'Alî Bin 'Abd 'al-Ḥamîd, on the authority of Sulaimân, on the authority of 'Anas, from the Prophet . . . "To this add the following.

"Chapter of Statements respecting Presentation, and the Communication of the Science to the Provinces, by its Cultivators, in Writing.

"Says 'Anas: ''Uthmân caused the standard copies of the Kurân to be written out, and sent them to the several quarters;' and 'Abdallâh Bin 'Umar, Yahya Bin Sa'id,* and Mâlik regarded this as a lawful mode of communication; moreover, some people of the Hijâz allege, in favor of presentation, a tradition of the Prophet... to the effect that he wrote an order for the captain of a troop of horse, and said: 'Read not until thou reachest the place so and so,' and that, accordingly, after the man had reached that place, he read it to the troopers, and informed them of the order of the Prophet...'

"'Isma'il Bin 'Abdallah tells us for a tradition, as told to him by 'Ibrahim Bin Sa'ad, on the authority of Salih, on the authority of 'Ibn Shihab, on the authority of 'Ubaidallah Bin 'Utbah Bin Mas'ad, that 'Abdallah Bin 'Abbas—may God be graeious to them both!—told him that the Messenger of God...sent a written order of his to a certain man, and commanded him to remit it to the chief of 'al-Bahrain; whereupon the chief of 'al-Bahrain remitted it to the Emperor, who, after reading, tore it—in connection with which, as I think, 'Ibn 'al-Masib says: 'so the Messenger of God... gave it strictly in charge to his people that

that they should tear every one who tears.'

"Muḥanmad Bin Muḥatil'Abu-l-Ḥasan tells us for a tradition, as communicated by 'Abdallah, as communicated by Shu'bah, on the authority of Kutadah, on the authority of 'Anas Bin Malik—to whom may God be gracious!—the following: 'The Prophet of God... wrote, or had a mind to write, an order; whereupon it was said to him that the persons concerned would read no writing not sealed; and so, while I was looking at the paper in his hand, he grasped a silver seal, the inscription upon which was "Muḥanmad the Messenger of God." Said I to Kutadah, on hearing this: "Who said that 'Muḥammad the Messenger of God' was inscribed upon it?" 'to which he replied: "'Anas.""

It will be perceived that the applicability of several of the traditions reported in the foregoing passage from the Sahîh, to the particular points which they are intended to illustrate, depends upon their involving general principles which the example of the Prophet established; and, indeed, the whole of the Book of the Science appears to refer, not to that which is pre-eminently the science of the Muslims—namely, the system of tradition—alone, but to all departments of instruction, in general. The same sort of illustration from general principles is found, also, in another chapter of that book, entitled also, which, being the Science to Writing, which, being

^{*} Yahya Bin Sa'id died A. H. 194, aged 80 years. See Kitâb Tab., vi. 77.

made up of reported instances of the Prophet's writing down what he wished to preserve for the instruction of others, is supposed to sanction the substitution of writing for oral statement

by the teacher of tradition.

We will now cite a few other brief chapters from this same book of the Nahih, for the sake of similar illustration of different points pertaining to the order of a school of tradition. The first to be cited relates to the age at which one may hear instruction in traditional science.*

باب متى يصم سماع الصبي الصغير

حدثنا أسمعيل حدثنى مانك عن أبن شباب عن عبيد الله بن عبد الله بن عباس رضى الله عنها قل اقبلت راكبا على حمار اتان والله يوميذ قد ناعزت الاحتلام ورسول الله صلى الله عليه وسلم يصلى عنى الى غير جدار فرت بين يدى بعن الصف وارسلت الان ترتع ودخلت في المن غير جدار فرت بين يدى بعن الصف وارسلت الان ترتع ودخلت في المن غير حداد كنك على احد حدثنا محمد بن يوسف ثنا ابو مسير حدثنى محمد بن حرب حدثنى الزبيدى عن الزعرى عن محمود بن الربيع رضى الله عنه قال عقلت من النبى صلى الله عليه وسلم متحة في وابن خمس سنين من دنو

" Chapter on the Propriety of a Stripling's Hearing Tradition.

"Isma'îl tells us, as told to him by Mâlik, on the authority of 'Ibn Shihâb, on the authority of 'Ubaidallâh Bin 'Abdallâh Bin 'Utbah, from 'Abdallâh Bin 'Abbâs—may God be gracious to both!—that the latter said: "I arrived mounted upon a female ass, having at the time nearly reached manhood, while the Prophet... was praying from Mina to Ghair Jidâr; so I passed on in front of some of the train, having let my beast go at large with the words: "now mayst thou feed well," and joined the train without any one's blaming me for so doing.

"Muhammad Bin Yûsuf tells us, as told by 'Abû-Mushir, as told to him by Muhammad Bin Harb. as told to him by 'az-Zubaidî, on the authority of 'az-Zuhrî, from Mahmud Bin 'ar-Rabî'—to whom may God be gracious!—that the latter said: 'I paid to the Prophet...the forfeit for a drop of wine which trickled on my face from a cup, when I

was a boy of five years'."

The following refer to tokens of respect due to the teacher:

fol. 6, rect.

[†] That is to say, even a boy of five years of age, being chargeable with disobedience to a law of the Prophet, might be made responsible for the transmission of tradition

[‡] fol. 7, rect.; fol. 8, rect.

باب من برك على ركبتيه عند الامام او الحدّث

حدثنا ابو اليمان الله صلى الله عليه وسلم خرج فقام عبد الله بن حذافة قال عنه الله عليه وسلم خرج فقام عبد الله بن حذافة قال من ابى فقال ابوك حذافة ثر اكثر ان يقول سلونى فبرك عمر على ركبتيه فقال رضينا بالله ربا وبالاسلام دينا وجحمد نبيا فسكت

"Chapter about one's Kneeling before the 'Imam, or the Teacher of Tradition.

"Abu-l-Yaman tells us, as communicated by Shu'aib, on the authority of 'az-Zuhrî, as communicated to him by 'Anas Bin Mâlik—to whom may God be gracious!—that the Messenger of God... went out once upon a time, when he was accosted by 'Abdallâh Bin Hudhâfah, saying: 'Who was my father,' to which he replied: 'Thy father was Hudhâfah,' and then said several times: 'Question me;' whereupon 'Umar knelt down and said: 'We accept God for our Lord, Islâm for our religion, and Muḥammad for our prophet,' and was silent."

ياب الانصات العلماء

حدثنا جاج ثنا شعبة اخبرنى على بن مدرك عن ابى زرعة بن عمرو عن جرير رضى الله عنه أن النبى صلى الله عليه وسلم قال له في جنة الوداع استنصت الناس فقال لا ترجعوا بعدى كفارا يصرب بعصكم رقاب بعض

" Chapter on the Commanding of Silence by the Masters of the Science.

"Hajâj tells us, as told by Shu'bah, as communicated to him by 'Alî Bin Mudrik, on the authority of 'Abû-Zur'ah Bin 'Amrû, on the authority of Jarîr—to whom may God be gracious!—that the Prophet of God ... said to the latter, when giving his farewell testimony: 'Bid the men be silent,' after which he said: 'Become not infidels, again, after I am gone, by smiting each other's necks.'"

باب من سأل وهو قايم عالما جالسا

حدثنا عثمان ثنا جرير عن منصور عن ابى وايل عن ابى موسى قال جاء رجل الى النبى صلى الله عليه وسلم فقال يرسول الله ما القتال في سبيل الله عز وجل فان احدنا يقاتل غصبا ويقاتل حمية فرفع اليه رأسه قال وما رفع اليه رأسه الا انه كان قيما فقال من قاتل لتكون كلمة الله في العليا فهو في سبيل الله

"Chapter on one's Making Inquiry, in a Standing Posture, of a Master of the Science Seated.

"'Uthmân tells us, as told by Jarîr, on the authority of Mansûr, on the authority of 'Abû-Wâ'il, on the authority of 'Abû-Mûsa, that the latter

said: 'There came a man to the Prophet... and said: "O Messenger of God, what is it to fight in the way of God?—may He be magnified and glorified!—for one of us fights with anger and indignation;' whereupon he lifted his head to him' (says the relator: 'and the Prophet would not have lifted his head to him, unless the latter had been standing') 'and said: "Whoever fights in order that the word of God may be the supreme word, he is in the way of God.""

Another chapter bears upon the question of the admissibility of women to the hearing of tradition, as follows:

باب عظة الامام النساء وتعليمهن

حدثنا سليمان بن حرب ثنا شعبة عن ايوب قل سععت عضاء قل سععت بن عباس رضى الله عنهما قل اشهد على النبى صلى الله عليه وسلم او قل عضاء اشهد على البن عباس ان النبى صلى الله عليه وسلم خرج ومعه بلال فظن انه لم يسمع النساء فوعظهن وامرهن بالصدقة فجعلت المراة تلقى القرط والحاتم وبلال يأخذ في ضرف ثوبه وقال اسمعيل عن ايوب عن عضاء قل ابن عباس اشهد على النبى صلى الله عليه وسلمر

" Chapter on the Warning and Instructing of Women by the 'Imâm.

"Salaimân Bin Harb tells us, as told by Shu'bah, on the authority of 'Aiyûb, who said that he had heard 'Atâ' say that he had heard 'Ibn 'Abbâs—may God be gracious to both!—say: 'I call the Prophet of God... to witness' (or, otherwise, that he had heard 'Atâ' say: 'I call 'Ibn 'Abbâs to witness') that the Prophet of God... went out, onee upon a time, attended by Bilâl: now it was supposed that the Prophet did not cause women to hear his teachings; he took occasion, therefore, at this time, to warn the sex, and to bid them give alms; in consequence of which the women begau to carry themselves haughtily, and Bilâl laid hold of the hem of the Prophet's garment.' Another form of the tradition is that 'Ismâ'îl says on the authority of 'Aiyûb, on the authority of 'Atâ', that 'Ibn 'Abbâs said: 'I call the Prophet of God... to witness, etc.'"

This question touching the rights of women is settled by J. to the same effect, in a paragraph already quoted:

ولا يشترك الذكورة ولا الحرية ولا العلم بفقهم وغريبه ولا البصر ولا العدد

"The being of the male sex is not made a condition [of the responsible teacher], nor freedom, nor knowledge of the jurisprudence based upon tradition, or of any thing foreign to the subject, nor sight, nor the being one of many."

To pursue the subject of the transmission of tradition, after the foregoing exhibition of the qualifications of the reliable re-

[†] See p. 63.

porter, the several ways of communication which are admissible, and the disposition required in the pupil, we have next to turn our attention to certain circumstances of form relative to tradition itself, in respect to which there are important distinctions involved in the science under consideration.

Every tradition (الرواية), or report (الرواية), consists of two parts: 1. the text (الترواية), which J. defines in these words:*

the text, which consists " المتن عو الفاظ كديث التي يتقوم بها المعاني of those words of the tradition by which sentiments are established,"

and H. as follows: †

and the text is that with which the allegation of authority ends;"

and 2. the support (السند), defined by J. thus:‡

the support is information of the way by which the text has come down,"

and by H.:§

the support is the course of descent of the tradition, consisting of its guarantees, by whom it is reported."

The term الاسناد is often used as synonymous with السند, though properly signifying "the action of supporting." J. says:

the term الاسناد denotes the carrying up of tradition to its original enunciator;"

and H. says: ¶

والاسناد بمعناء وقد يجئ بمعنى ذكر السند والحكاية عن نريق المتن "the term الاسناد las the same meaning [as السناد, but is also, indeed, used to signify the statement of the support, and the giving account of the way by which a text has come down."

The text of a tradition consists either of a saying (انقعل), or of an action (انفعل), or of a confirmation (انتقریر), of the Prophet; of which the last is involved in the two former, according to a definition of it which H. gives us:***

ومعنى التقرير انه فعل احد او قال شيّا فى حضرته صلى الله عليه وسلمر ولم ينكره ولم ينهه عن ذلك بل سكت وقرّر

"the term التقرير signifies that some one either did or said something in the presence of the Prophet ... and that he did not blame him, nor forbid him to do or say that thing, but on the contrary was s lent and confirmed it."

What is to be understood by a saying, and by an action, of the Prophet, as constituting the substance of tradition, is set forth in the Dictionary of the Technical Terms... in the following passage: "

وعلم الحديث علم تعرف بد اقوال رسول الله صلى الله عليد وسلم وافعالد الما اقواله عليد انصلوة والسلام فعي اللام العربي في لم يعرف حال اللام العربي فيو معزل عن عذا العلم وهو كوند حقيقة وتجازا وكناية وصريحا وعاما العربي فيو معزل عن عذا العلم وهو كوند حقيقة وتجازا وكناية وصريحا وعاما وخاصا ومطلقا ومقيدا ومنطوقا ومنويا وتحو ذلك مع كوند على قانون العربية الذي بيند النحاة بتفاصيله وعلى قواعد استعال العرب وهو المعبر بعلم اللغة واما افعاله عليد الصلوة والسلام فهي الامور الصادرة عند التي المنا بتماعد فيها أو لا كالافعال الصادرة عند طبعا أو خاصة

"The science of tradition is that by which sayings and actions of the Prophet... are authenticated. As to his sayings..., they consist of discourse in the Arabic language; so that one who is not familiar with the genius of Arabic discourse can not attain to this science. What is said is something by itself or in its connection, metaphorical or literal, general or special, absolute or qualified, express or implied, and the like, in conformity with the rules of the Arabic language, as set forth distinctively by the grammarians, and with the principles of Arab usage, exhibited in the science of lexicography. As to his actions..., they are things of which he set the example, whether he commanded us to imitate him therein or not—for instance, actions which he exemplified out of natural impulse or in consequence of some individual peculiarity."

This classification of the texts of tradition will facilitate the understanding of certain expressions in passages presently to be quoted from our authorities. With respect to the comparative weight of a tradition, however, its support, and not its text, is primarily considered: in other words, the Muslim man of the law receives or rejects tradition on external evidence, rather than internal. J. tells us expressly:†

اعلم ان متن الحديث نفسه لا يدخل في الاعتبارا الا نادرا بل يكتسب صفة من القوة والضعف وبين بين بحسب اوصاف الرواة من العدالة والصبط والحفظ وخلافها وبين ذلك وحسب الاسناد من الاتصال والانقشاع والارسال والاصطراب وتحوها فالحديث على هذا ينقسم الى صحيح وحسن

^{*} page 27.

وضعيف هذا اذا نظر الى المتن واما اذا نظر الى ارصاف الرواة فقيل هو ثقة عدل ضابط او غير ثقة او متهم او مجهول او كذوب او تحو ذلك فيكون البحث عن الجرح والتعديل واذا نظر الى كيفية اخذم وطرق تحملهم الحديث كان البحث عن اوصاف الطالب واذا بحث عن اسمائهم وانسابهم كان البحث عن تعيينهم وتشخيص ذواتهم فالمقاصد مرتبة على اربعة ابواب

"Be it known that the text itself of a tradition is but rarely taken into account: on the contrary, a tradition is qualified as strong, or weak, or intermediate, with reference to the qualities of integrity, retentiveness, and good memory, and their opposites and intermediates, possessed by the reporters, as well as with reference to continuousness (الانتخال) or disseverance (الانتخال), looseness (الارسال), instability (الانتخال), and the like, in the support: on this ground, then, tradition is divided into sound (عصبت), fair (عصبت), and weak (عصبت). When reference is made to the qualities of reporters, one is said to be reliable (عصبت), ignored (عابد), retentive (عابد), or not reliable (غير أعد), fanciful (عابد), ignored (عابد), false (عابد)), and the like—giving rise to discussion in respect to confutation (عابد) and approbation (التعديل). When the question is, how the reporters came to get a tradition, and by what ways they took it up, there arises discussion in respect to modes of pursuing inquiry. When their names and surnames are looked into, there is inquisition regarding their identification and individualization. Consequently, our propositions are arranged in four chapters."

We proceed, therefore, to follow our authorities in their definitions of certain varieties of support to tradition, which constitute, together with distinctions in regard to the qualifications of the responsible teacher, the chief ground of the classification of tradition as sound, fair, or weak. From the definition of the science of tradition with which we began, and which is substantially repeated in our last quotation from the Dictionary of the Technical Terms..., it is obvious that the ultimate design of what is called "the support" must be to attach the authority of Muhammad to some saying or action reported as his, or sanctioned by him; and here is to be observed, in the first place, that tradition is said to be carried back to the Prophet either positively or potentially, as in the following passage from H.:*

والرفع قد يكون صريحا وقد يكون حكما أما صريحاً ففى القولى كفول الصحابى سمعت رسول الله صلى الله عليه وسلم يقول كذا او كقوله او قول غيرة قال رسول الله صلى الله عليه وسلم او عن رسول الله صلى الله عليه

^{*} fol. 1, rect.

وسلم انه قال كذا او في الفعلي كقول الصحابي رأيت رسول الله صلى الله عليه وسلم فعل كذا او عن رسول الله صلى الله عليه وسلم انه فعل كذا او عن الصحابي او غيره مرفوعا او رفعه انه فعل كذا او في التقريبي ان يقول الصحابي اوغيره فعل فلان او احد بحضرة النبي صلى الله عليه وسلم كذا ولا يذك انكاره والماحكاً فكاخبار الصحابي الذي لم بخبر عن الكتب المتقدمة ما لا مجال فيه للاجتهاد عن الاحوال الماصية كاخبار الانبياء او الايمة كالملاحم والفتى واهوال يومر القيمة أو عن ترتب ثواب تخصوص أو عقاب تخصوص على فعل فأنه لا سبيل اليه الا السماء عن الذي صلى الله عليه وسلم او يفعل الصحابي ما لا مجال للاجتهاد فيه او يخبر الصحابي بانهم دنوا يفعلون كذا في زمان النبي صلى الله عليه وسلمر لان الظاهر اللاعد صلى الله عليه وسلم على ذلك ونزول الوحى به أو يقولون أو من السنة دفا لان الظاعر أن السنة سنة رسول الله صلى الله عليه وسلمر وقال بعصهم انه يحتمل سنة الصحابة وسنة الخلفاء الراشديين فأن السنة

"The carrying back (الرفع) is either positive or potential. "As to carrying back positively, that, in the case of a tradition of saying, is exemplified by this declaration of a witness of the Prophet: 'I heard the Messenger of God . . . say so and so,' or by his or another's saying: 'Said the Messenger of God . . .' (or, 'It comes from the Messenger of God ... that he said') 'so and so';' or, in the case of a tradition of action, by the declaration of a witness of the Prophet: 'I saw the Messenger of God . . . do so and so,' or 'It comes from the Messenger of God... that he did so and so,' or by the expression: 'It comes from a witness of the Prophet' (or, 'from some one else'), 'as a tradition carried back' (or, 'which he carried back to the Prophet'), 'that he did so and so;' or, in the case of a tradition of confirmation, by the declaration of a witness of the Prophet, or of some one else, in the following words: 'Such a one' (or, 'A certain person') 'did so and so in the presence of the Prophet, and there is no account of his blaming him.'

"As to carrying back potentially, that is exemplified by those statements of a witness of the Prophet which he makes independently of the authority of ancient books, and which cannot be ascribed to human caprice (الاجتهان), respecting eircumstances of past time, such as stories of the prophets or imâms—their conflicts and trials, for instance—and respecting the terrors of the day of judgment, or the assignment to a certain action of a special reward, or a special punishment; for such information can have been obtained only by a hearing from the Prophet ... The potential carrying back may, also, be exemplified by the doing, on the part of a witness of the Prophet, of something in which human caprice could have had no concern; or by his telling that people did so and so in the time of the Prophet... or said so and so, inasmuch as it is obvious that the Prophet... must have given the suggestion, and that by divine inspiration; or by the expression: 'so and so is a part of the Sunnah,' for the Sunnah is plainly the traditional law of the Messenger of God..., though some persons say that the term may signify the traditional law of the Prophet's Companions and the traditional law of his orthodox successors, in which case Sunnah becomes a generic word."

When, therefore, the authority of the Prophet is either positively or potentially attached to a tradition, it is said to be carried back (مرفوف); otherwise, it is said to be stopped (مرفوف). But the varieties of support to tradition respect not the last link, alone, in the chain of connection with the Prophet: in determining the quality of the support belonging to a particular tradition, the whole series of attestations through which it is handed down must also be considered. If all those which precede the last follow one another in uninterrupted succession, each reporter having derived the tradition immediately from him who is named next before him in the support, the tradition is said to be continuous (متصل): and this continuousness, combined with the carrying back to the Prophet, constitutes a sustained (مسند) tradition, that is, a tradition of which the support is perfect. Uninterruptedness of succession, however, is far from marking the descent of every tradition; and hence arise technical distinctions with reference to the several ways in which the want of it ap-The following passage from H. sets forth the more important of these distinctions:

فان لمر يسقط راو من الرواة من البين فالحديث متصل ويسمى عدم السقوط اتصالا وان يسقط واحد او اكثر فالحديث منقطع وهذا السقوط انقطاع والسقوط اما ان يكون من اول السند ويسمى معلقا وهذا الاسقاط تعليقا والساقط قد يكون واحدا وقد يكون اكثر وقد بحذف تمام السند كما هو عادة المصنفين يقولون قال رسول الله صلى الله عليه وسلمر والتعليقات كثيرة في تراجم صحبح البخارى ولها حكم الاتصال لانه التزم في هذا الكتاب أن لا يأتنى الا بالصحبح ولكنها ليست في مرتبة مسانيد، الا ما ذكر منها مسندا في موضع اخر كتابه وقد يفرق فيها بان ما ذكر بصيغة الجزم والمعلوم كقوله قال فلان دل على ثبوت اسناده عنده فهو صحبح قطعا وما ذكره بصيغة المتريض والمجهول كقيل ويقال وذكر ففي محتد عنده كلام ولكنه لما اورده في التمريض والمجهول كقيل ويقال وذكر ففي محتد عنده كلام ولكنه لما اورده في

^{*} fol, 1, rect. and vers.

هذا الكتاب كل له اصل ثابت ولهذا قالوا تعليقات البخاري متصلة صحيحة وإن كان السقوط من اخر السند فإن كان بعد التابعي فالحديث مرسل وهذا الفعل ارسال كقول التابعي قال رسول الله صلى الله عليه وسلم وقد يجيَّى عند الحدثين المرسل والمنقطع بمعنى والاصطلاح الاول اشهر وحكم المرسل التوقف عند جمهور العلماء لانه لا يدرى إن الساقط ثقة أو لا لان التابعي قد يروى عن التابعي وفي التابعيين نقات وغير ثقات وعند ابي حنيفة ومالك المرسل مقبول مطلقا وهم يقُّولون انما ارسله لكال الوثوق والاعتماد لان الكلام في الثقة ولو لم يكن عنده محيحا لم يرسله ولم يقل قال رسول الله صلى الله عليه وسلم وعند الشافعي ان اعتصد بوجه اخم مرسل او مسند وان كان صعيفا قبل وعن احمد قولان وهذا كله اذا علم ان عادة ذلك التابعي أن لا يرسل الاعبي الثقات وأن كانت عادته أن يرسل عن الثقات رعن غير الثقات فحكم التوقف بالاتفاق كذا قيل وفيه تفصيل ازيد من ذلك ذكره السخاوى في شرح الالفية وان كان السقوط من اثناء الاسناد فان كان الساقط اثنين متواليا يسمى معصلا بفتي الصاد وان كان واحدا او اكثر من غير موضع واحد يسمى منقطعا وعلى هذا يكون المنقطع قسما من غير المتصل وقد يطلق المنقطع معنى غير المتصل مطلقا شاملا بجميع الاقسام وبهذا المعى جعل مقسما ويعرف الانقطاع وسقوط الراوى بمعرفة عدمر الملاقات بين الراوى والمروى عنه اما بعدمر المعاصرة او عدم الاجتماع والاجازة عنه بحكم علم التأريخ المبين لمواليد الوواة ووفياتهم وتعيين اوقات طلبهم وارتحانهم وبهذا صار علم انتأريخ اصلا وعمدة عند المحدثين ومن اقسام المنقطع المداس بصم الميم وفترج اللام المشددة ويقال لهذا الفعل التدليس ولفاعله مدلس بكسر اللامر وصورته أن لا يسمى الراوى شيخه الذي سمعه منه بل يروى عمن فوقه بلفظ يوثم السماع ولا يقطع كذبا كما يقول عن فلان وقل فلان والتدليس في اللغة كتمان عيب السلعة في البيع وقد يقال انه مشتق من الدلس وهو اختلاط الظلام واشتداده سمى به لاشتراكهما في الخفاء قال الشيخ وحكم من ثبت عنه التدليس انه لا يقبل منه الا اذا صرح بالتحديث قال الشمني التدليس حرام عند الأيمة روى عن وكيع انه قال لا بحل تدليس الثوب فكيف بتدليس الحديث وبالغ شبعة في نمّه وقد اختلف العلماء في قبول رواية

المدلس فذهب فيق من اهل الحديث والفقه الى أن التدليس جرح وأن من عرف به لا يقبل حديثه مطلقا وقيل يقبل وذهب الجهور الى قبول تدليس من عرف انع لا يدلس الاعلى ثقة كابي عيينة والي ردّ من كان يدلس عن الضعفاء وغيه م حتى ينصّ على سماعه بقوله سمعت او حدثنا او اخبينا والباعث على التدليس قد يكون لبعض الناس غرض فاسد مثل اخفاء السماع من الشيئ لصغر سنّه او عدم شهرته وجاهه عند الناس والذى وقع من بعض الأكابر ليس لمثل هذا بل من جهة وثوقهم لصحة الحديث واستغناء بشهرة الحال قال الشمني يحتمل ان يكون قد سمع الحديث من جماعة من الثقات وعن ذلك الرجل فاستغنى بذكره عن ذكر احداثم او ذكر جميعهم لتحققه بصحة الحديث فيه كما يفعل المرسل وان وقع في اسناد او متى اختلاف من الرواة بتقديم وتأخير او زيادة ونقصان او ابدال راو مكان راو اخر او متى مكان متى او تصحيف في اسماء السند او اجزاء المتى او باختصار او حذف او مثل ذلك فالحديث مصطب فان امكن الجع فيها والا فالتوقف وان ادرج الراوى كلامه او كلام غيره من محابى او تابعي مثلا لغوص الاغراض كبيان اللغة او تفسير للمعنى او تقييد للمطلف او نحو ذلك فالحديث مدرج

فصل تنبيه

وهذا المجت ينجر الى رواية الحديث ونقله بالمعنى وفيه اختلاف فالاكثرون على انه جائز عن هو عالم بالعربية وماهر في اساليب الكلام وعارف بخواص التراكيب ومفهومات الخطاب لئلا يخطى بزيادة ونقصان وقيل جأيز في مفردات الالفاظ دون المركبات وقيل جائز لمن استحصر الفاظه حتى يتمكن من التصرف فيه وقيل جائز لمن يحفظ معانى الحديث ونسى الفاظها المترورة في تحصيل الاحكام واما من استحصر الالفاظ فلا يجوز له لعدم الترورة وهذا الخلاف في الجواز وعدمه اما أولوية رواية اللفظ من غير تصرف فيها فتفق عليه لقوله صلى الله عليه وسلم نصم الله امراً سمى مقالتي فوعاها فاداها كما سمع الحديث والنقل بالمعنى واقع في الكتب الستة وغيرها والعنعن حديث رواية المعندة رواية الحديث بالفظ عن فلان عي فلان والمعنعن حديث روي

بطريف العنعنة ويشترط في العنعنة المعاصرة عند مسلم واللقي عند

انبخاری والاخذ عند قوم اخرین ومسلم ردّ علی الفریقین اشد الردّ وباغ فیه وعنعند المدلس غیم مقبول وکلّ حدیث مرفوع سنده متصل فهو مسند هذه و المشهور المعتمد علید وبعصهم یسمی کل متصل مسندا وان کان موقوفا او مقطوعا وبعصبم یسمی المرفوع مسندا وان کان مرسلا او معصلا او منقطعا

"If no one of the reporters has dropped out from the chain of connection, the tradition is continuous (متصل), and the absence of all dropping out (اتصال) is called continuousness (اتصال). If one reporter has dropped out, or more, the tradition is dissevered (منقطع), and it is this dropping out which constitutes a disseverance (انقطاع).

"The dropping out may be [1] at the beginning of the support, and the tradition is then said to be given summarily ((ask), the letting drop being in this case called a summary statement ((ask)). Either one reporter or more may have dropped out; or the complement of the support may have been entirely left off, after the manner of those authors who say: 'Said the Messenger of God . . .' Summary traditions are numerous in the chapters of the Sahih of 'al-Bukhâri, and are accounted as if they had continuousness, because it is strenuously maintained that this book contains only sound tradition; yet do they not rank with sound traditions which are sustained ((ask)), except those given as sustained in some other part of 'al-Bukhâri's book.

"A distinction, indeed, exists among these summary traditions, on the ground that such of them as are given with an appearance of conciseness, and as something well-known—for example, in the form: Such a one says'—imply the stability of their support in the opinion of 'al-Bukhârî, so that they are decisively sound; while in the ease of such as are given in a form which indicates some defect, and that there is want of knowledge respecting them—for example: 'It has been said,' or 'It is mentioned'—there may be a question as to 'al-Bukhârî's opinion of their soundness, although, inasmuch as he introduces them into that book, they are firmly based, and people, therefore, say that the summary traditions of 'al-Bukhârî are continuous and sound.

"If the dropping out is [2] at the end of the support, then, in ease it comes after a follower of the Prophet in the second degree (), the tradition is loosened (), this participle being derived from the fourth form of the verb: as, for instance, the saying by a follower in the second degree: 'Said the Messenger of God...' The terms 'loosened' and 'dissevered' are used, indeed, by teachers of the seience as synonymous; but the technical meaning above given to the latter is the most generally received. By most of the doctors, loosened tradition is accounted as stopped, because uo one can know whether the reporter who has dropped out was a reliable authority (SS) or not, since one follower in the second degree may report on the word of another, and among such followers of the Prophet there were both reliable and unreliable authorities. According to 'Abû-Hant-

fah* and Mâlik, however, loosened tradition is generally to be received; and there are those who say that one lets a tradition go loose only because it is wholly indisputable and to be relied upon, since there can be no question except in regard to loosening by a reliable authority, and if, in the opinion of such a one, the tradition was not sound, he would not have let it go loose, and say: 'Said the Messenger of God . . .' The opinion of 'ash-Shafi'i was that, provided it be helped out by some other form of it, either loosened or sustained, it is to be received, even though it be weak. From 'Ahmad' we have two declarations of opinion, as follows: 'All this presnpposes that the follower in the second degree is known to have been in the habit of letting tradition go loose only when supported by reliable authorities. If he was addicted to letting go loose in dependence upon both reliable and unreliable authorities, the tradition is by common consent adjudged to be stopped.' Such are the different views expressed. A fuller specification relative to the matter is presented by 'as-Sakhawi in his commentary on the 'Alfiyah I

"If the dropping out is [3] in the midst of the support, then, in case two consecutive reporters have dropped out, the tradition is called straitened (معضل)—the participle being pronounced with fath on the dhâd; but, in case only one has dropped out, or more than one, not from the same place, it is called dissevered. Agreeably to this use of terms, dissevered tradition is a subdivision of that which is not continuous: the term 'dissevered' is, indeed, applied to tradition not continuous, in general, as comprehending all species of it; but in the sense here given to it, it becomes a special term.

"The fact of disseverance and of the dropping out of a reporter is ascertained by knowing that there was no concurrence between a certain reporter and one reported from, in consequence either of the want of contemporaneousness or of association, or of the fact that the former was not licensed by the latter, as proved by the science of history, which tells the dates of the births and deaths of reporters, and the special circumstances of the times of their inquiry after traditions and journeying in quest of them: so that history becomes a radical and fundamental science to the teachers of traditiou.

"Another of the varieties of dissevered tradition is the disguised (المكس)—the participle being pronounced with dhamm on the mim, and fath on the lâm, together with tashdid: the verbal noun being , and the active form of participle مدلس, with kasr on the lâm. Its form depends upon a reporter's not naming his master, from whom he heard the tradition, but reporting on the authority of some one superior to him, in terms which convey the idea of his having heard from this other person, without direct falsehood—as if, for example, he should say: 'On the authority of such a one, so and so,' or

^{* &#}x27;Abû-Hanîfah, the founder of a school of Muslim law, died A. H. 150-53. See Kitâb Tab., v. 8.

[†] i. e. 'Ahmad Bin Hanbal, the founder of one of the four great schools of Muslim law, who died A. H. 241. See Kitâb Tab., viii. 18. † i. e. the 'Alfiyat 'al-Irâki—a work on the principles of tradition. See Haji Khalf. Lex., i. 416, 418. The commentator died A. H. 902.

'Such a one says so and so.' In common parlance, the term التدليس has the signification of 'concealment of the defects of merchandise,' and is said to be derived from الكنّس, 'the involving in darkness, on purpose;' and the disguising of tradition is said to be called by this term because it partakes of the insidiousness involved in such concealment.

"Says the Shaikh: "It is not judged proper to receive tradition from any one who countenances disguising, except when he distinctly states by whom he was taught.' Says 'ash-Shumuuni : f 'In the opinion of the eminent teachers, disguising is forbidden.' From Waki'f it is reported that he said: 'Disguising in the case of clothes [offered for sale is unlawful: how then must it be with disguising practised on tradition?' Shu'bah, also, was earnest in condemnation of it. But, as to the reception of the report of one who disguises, there is diversity of sentiment on the part of the doctors. Certain traditionists and jurisconsults think that disguising amounts to a confutation (جرح), and that the tradition of any one who is notorious for it is absolutely not to be received; others say that it may be received. Most persons, however, approve of receiving tradition which is disguised by one who is understood to have had, in all cases, good authority for what he disguised, such as 'Ibn 'Uyainah, and of rejecting the report of any one accustomed to disguise tradition which he was taught by weak authorities, or others not reliable, except when he expressly declares from whom he heard the tradition, using the words: 'I have heard,' or 'Such a one tells us for a tradition,' or 'Such a one informs us.'

"The inducement to disguising, in the case of some men, is certainly a corrupt motive, as, for example, to hide the fact of one's having heard a tradition from one's real master, on account of his youth, or his want of reputation and consequence among men. But the disguising practised by some of the great reporters cannot be ascribed to such a motive, and must, on the contrary, be owing to their assurance in respect to the soundness of a tradition, and to their thinking it enough that the circumstances of the case were generally known. Says 'ash-Shumunni: 'It may be that one has heard the tradition from several reliable authorities, on the word of that guarantec whom he names; so that he is content to mention the latter, without mentioning either one or all of the former, on account of that confidence in the matter with which the soundness of the tradition inspires him; which is like what the reporter does who lets a tradition go loose.'

"If it happens that there is disagreement among reporters, in respect either to a support or a text, in consequence of transposition, addition

or curtailment, or substitution either of one reporter or of one text for another, or error as to the names belonging to the support, or as to the

^{*} i. e. 'Abû-Hanîfah.

Probably Takî 'ad-Dîn 'ash-Shumunni, the teacher of 'as-Suyûtî in tradition.

who died A. H. 872. See Háji Khalf. Lex., iv. 59, and vii. 614.

† A traditionist of Kúfab. He died A. H. 189. See Kitáb Tab., vi. 53.

§ An eminent traditionist and jurist of Basrah, who died A. H. 160. See Kitáb Tab., v. 28.

parts of which the text consists, whether owing to compression, omission, or the like, the tradition becomes unstable (مصطرب). In case any one form of the tradition can be agreed upon, under such circumstances,

it is well; otherwise, the tradition is stopped.

" Section of a Warning.

"The topic last suggested leads us to speak, also, of the reporting of a tradition, and its transmission, by the sense. In regard to this, there is difference of opinion. The great majority of persons think it allowable on the part of one so conversant with the Arabic language, skilled in the modes of discourse, and acquainted with the niceties of composition and the implied meanings of language, that he is not subject to err, either by adding to or taking from the sense. Others say that it is allowable as respects single words, not as respects phrases. is said by some to be allowable for one who recalls the words of the tradition, so that he is able to use discretion in the matter. It is also said that necessity in respect to making out judicial decisions renders it allowable for one who remembers the sentiments of tradition, but has forgotten the words in which they are expressed; while, on the other hand, one who remembers the words is not to be allowed to report by the sense, because there is no necessity. But does not all this difference of opinion respecting its admissibility and its inadmissibility amount to the principle that to report in the very words, without using any liberty, is the more proper way? Accordingly, on account of a saying of the Prophet . . . 'God will assuredly cheer the face of him who hears my sentences, and retains them in memory, and recites them in the very words of tradition which he has heard,' it is so agreed. Yet transmission by the sense occurs in the Six Books, as well as in other works.

"The term is signifies the reporting of tradition by the expression: 'On the authority of such a one,' and what is called tradition on authority (is that which is reported in this form. Muslim makes it a condition of reporting by the expression mentioned, that the two persons thus named were contemporaneous: 'al-Bukhârî requires that they have met; and others say that one must have taken the tradition from the other; but Muslim is strenuous and persistent in rejecting the views of the two latter parties. The reporting by this expression of a tradition also disguised is inadmissible.

"Every tradition carried back to the Prophet, of which the support is continuous, is sustained (مسند): this is universally acknowledged and held to. But some persons call every continuous tradition sus-

tained, although it be stopped, or fall short of the Prophet; and some call a tradition sustained which is carried back, even though it be oosened, or straitened, or dissevered."

Certain other technical distinctions, by which the weight of a tradition is affected, involving comparison between one tradition and another, in respect either to the text or the support, are presented in the following section, which is a continuation of the passage last cited from H.:*

فصل

ومن اقسام الحديث الشاذ والمنكر والمعلل والشاذ في اللغة من تفرد من الجاعة وخرج منها وفي الاصطلاح ما روى تخالفا لما رواه الثقات فأن لمريكن رواته ثقة فهو مردود وان كان ثقة فسبيله الترجيم بمزيد حفظ وضبط او كثرة عدد ووجوه اخر من الترجيحات فالراجيح يسمى محفوظا والمرجوح شادًا والمنكر حديث رواه صعيف تخالف لمن هو اصعف منه ومقابله المعروف فالمنكم والمعروف كلا راويهما ضعيف واحدها اضعف من الاخم وفي الشاتي وانحفوظ قوى احدها اقوى من الاخر والشاذ والمنكر مرجوحان والمحفوظ والمعروف راجحان وبعضهم لريشترطوا في الشاذ والمنكر قيد المخالفة لراوي اخر قويا كان أو ضعيفا وقالوا الشاق ما رواه الثقة وتفرد به ولا يوجد له اصل موافق ومعاصد له وهذا صادق على فرد ثقة صحيم وبعضهم لمر يعتبروا الثقة ولا المخالفة وكذلك المنكر لر يخصوه بالصورة المذكورة وسموا حديث المطعون بفسق او فرط غفلة وكثرة غلط منكرا وهذه اصطلاحات لا مشاحة فيها والمعلل بفتح اللام اسناد فيه علل واسباب غامصة خفيفة قادحة في الصحة يتنبع لها الحذاق المهرة من اهل هذا الشان كارسال في الموصول ورقف فى المرفوع وخحو ذلك وقد يقتصم عبارة المعلل بكسر اللام عن اقامة الحجة على دعواه كالصيرفي في نقد الدينار والدرهم واذا روى راو حديثا وروى راو اخر حديثا موافقا له يسمى هذا للديث متابعا بصيغة اسمر الفاعل وهذا معنى ما يقول المحدثون تابعه فلان وكثيرا ما يقول البخاري في صحيحه ويقولون وله متابعات والمتابعة توجب التقوية والتأييف ولا يلزم ان يكون المتابع مساويا في المرتبة للاصل وان كان دونه يصلح

^{*} fol. 2, rect.

للمتابعة والمتابعة قد تكون في نفس الراوى وقد تكون في شيخ فوقه والاول التم واكمل من الثانى لان الوعن في اول الاسناد المثر واغلب والمتابع ان وافق الاصل في الفظ والمعنى يقال مثله وان وافق في المعنى دون اللفظ يقال تحوه ويشترط في المتابعة ان يكون الحديثان من صحابي واحد وان كنا من صحابين يقال له شاعد كما يقال له شاعد من حديث ابي هريرة ويقال له شوهد ويشهد به حديث فلان وبعضهم يخصون المتابعة بالموافقة في اللفظ والشاهد في المعنى سواء كان من صحابي واحد او من صحابيين وقد يضلف الشاهد والمتابع معنى واحد والامر في ذنك بين وتتبع طرق للديث واسانيدها لقصد معرفة المتابع والشاهد يسمى الاعتبار

" Section.

"Other subdivisions of tradition are the separate (الشاذ), the undetermined (النكر), and the specious (المعلى).

"The term الشاق, in common parlance, signifies one who stands apart from the multitude, or eomes out therefrom. In technical lauguage, it denotes that which is reported at variance with the report of reliable authorities (الثقات). If, therefore, its reporters are not reliable, it is to be rejected; but, in ease they are reliable, the method to be pursued in regard to it is to give the preference to whichever tradition has the greater degree of memory and retentiveness, or the larger number, on its side, or to choose between them according to other criteria of relative weight. That which preponderates, then, is called remembered tradition (خفوظ), and the one of inferior weight is called separate.

"Undetermined (النكر) tradition is that which is reported by a weak reporter, at variance with one less weak than himself. Its correlate is reeognized tradition (المعرف). Accordingly, both the undetermined and the recognized are reported by weak authorities, of whom one is weaker than the other; whereas the reporters of separate and of remembered tradition differ from each other in relative strength. Yet both the separate and the undetermined are overbalanced sorts of tradition, while the remembered and the recognized are two preponderating varieties. Some persons, however, do not make it a condition of separate and undetermined tradition, that one reporter differs to some extent from another, being either strong or weak, and say that the separate is that which a reliable authority reports alone, and for which is found no original that accords with it and gives it countenance; and that such tradition is trustworthy, inasmuch as it is upheld by a single sound reliable authority. Others, again, not taking into account either the existence of a reliable authority, or the fact of variance between two reporters, give a different definition of the undetermined from that above stated, and call that tradition undetermined which comes from a reporter who is dishonored by some impiety, or by excess of earelessness and great blundering. The technical terms of which we here speak are used with freedom.

"Specious tradition (العلا)—the participle being pronounced with fath on the lâm—is so named from the fact that certain hidden, subtle pretences and assumptions, injurious to its soundness, are involved in its support, which put upon their guard acute and skillful traditionists, in like manner as they are cautious of some loosening in the case of tradition [apparently] unbroken, and of some stoppage in that [which professes to be] carried back to the Prophet, and the like. The term is sufficiently explained by the use of with kasr on the lâm—to signify the action of instituting a specious argument against one's claim, after the manner of the money-changer who selects the better dînâr, or dirham.

"When one reporter has reported a tradition, and another reports a tradition answering thereto, the latter is called imitative tradition (متنابع) -the participle having the active form. This explains the saying of teachers of tradition: 'Such a one imitates it;' instead of which 'al-Bukhari and other teachers often use the expression: 'There are imitations of it.' Imitation serves for corroboration and helping out, though imitative tradition is not necessarily equal in grade to its original: it accords with the fact of imitation that it should be of inferior grade. A reporter may himself be imitated, or the imitation may be of a master above him in the chain of connection: the former ease comes nearer to the ultimate aim and perfection of this sort of tradition than the latter, because the first part of a support is the most liable to be weak. If imitative tradition agrees with its original both in words and in meaning, it is said to be its like (مثلا); if it agrees in meaning, but not in words, it is said to be its equivalent (). It is a condition of imitation, that both traditions be from one witness of the Prophet. In case they come from two witnesses, the imitated tradition is said to have testimony (شاعد) in its favor, as, for example, it is said: 'It has testimony in its favor in the tradition of 'Abû-Hurairalı;' another expression is: 'It is testified to by so and so,' or 'The tradition of such a one bears testimony to it.' Some persons, however, appropriate 'imitation' to an agreement in words, and use the term 'attesting tradition' to signify accordance in meaning, whether the two traditions (الشاعد) compared are from one witness of the Prophet or from two. Attesting tradition and the imitative are, indeed, loosely spoken of in one and the same sense; in which case the matter is to distinguish. To follow out the ways by which a tradition has come down, and the supports consisting thereof, in order to the recognition of imitative and attesting tradition, is called criticism (الاعتبار)."

The technical distinctions which have been stated and explained in these last extracts, together with the definitions pertaining to the qualifications of the responsible teacher, previously

given, lie at the foundation of the more comprehensive classification of tradition as sound, fair, and weak, which is itself recognized by the Muslims as the basis of all legal opinions derived from traditional sources. What then are sound, fair, and weak traditions? The following explanations from H. afford an answer to this inquiry:*

فصل

واصل اقسام الحديث ثلثة صحيح وحسن وضعيف فالصحيح اعلا مرتبة والصعيف ادنى والحسن متوسط وساير الاقسام التى ذكرت داخلة فى هذه الثلثة فالصحيح ما يثبت بنقل عدل تأمر الصبط غير معلل ولا شأن فان كانت هذه الصفات على وجه الكال والتمام فهو الصحيح لذاته وان كان فيه نوع قصور ووجد ما يجبر ذلك القصور من كثرة الطرق فهو الصحيح لغيرة وأن لم يوجد فهو الحسن لذاته وما فقد فيه الشرايط المعبترة فى الصحيج كلا او بعضا فهو الصعيف والصعيف ان تعدد طرقه والحبر ضعفه يسمى حسنا لغيرة وظاهر كلامهم انه يجوز أن يكون جميع الصفات المذكورة فى الصحيح ناقصا فى الحسن لكن التحقيف أن النقصان الذى اعتبر فى الحسن انما هو بحفة الصبط وباق الصفات بحالها

فصل

المحديث الصحيج ان كان راوية واحدا يسمى غريبا وان كان اثنين يسمى عريبا وان كانوا اكثر يسمى مشهورا ومستفيضا وان بلغت رواتة في الاكثرة الى ان يستحيل العادة تواطيهم على الكذب يسمى متواترا ويسمى الغريب فردا ايضا والمراد بكون راوية واحدا كونة كذلك ولو في موضع واحد من الاسناد لكنة يسمى فردا نسبيا وان كان في كل موضع منة يسمى فردا مطلقا والمراد بكونهما اثنين ان يكونا في كل موضع كذلك فان كان في موضع واحد مثلا لم يكن الحديث عزيزا بل غريبا وعلى هذا القياس معنى اعتبار الكثرة في المشهور ان يكون في كل موضع اكثر من اثنين وهذا معنى قولهم ان الاقل حاكم على الاكثر في هذا الفي فانهم وعلم ما ذكر معنى قولهم ان الاقل حاكم على الاكثر في هذا الفي فانهم وعلم ما ذكر معنى واحد من رجالة ثقة والغريب قد يقع معنى الشاذ اي شذوذا يكون كل واحد من رجالة ثقة والغريب قد يقع معنى الشاذ اي شذوذا

^{*} fol. 2, rect., and fol. 3, rect.

هو من اقسام الطعن في الحديث وهذا هو المراد من قول صاحب المصابيج من قوله هذا حديث غريب لما قال بطريق الطعن وبعض الناس يفسرون الشاذّ عفره الراوى من غير اعتبار مخالفته للثقات كما سبق ويقولون هجيج شاذّ صحيح غير شاذّ فالشذوذ بهذا المعنى ايضا لا ينافى الصحة كالغرابة والذي يذكر في مقام الطعن هو مخالفة الثقات

فصل

للحديث الصعيف عو الذى فقد فيه الشرايط المعتبرة فى الصحة والحسن كلّا او بعصا ويتسم راويه بشذوذ او نكارة او علّة وبهذا الاعتبار يتعدد اقسام الصعيف ويكثر افرادا وتركيبا ومراتب الصحيج والحسن لذاتهما وغيرها ايضا يتفاوت المراتب والدرجات فى كمال الصفات المعتبرة المأخوذة فى مفهوميهما مع وجود الاشتراك فى اصل الصحة والحسن والقوم ضبطوا مراتب الصحة وعينوها وذكروا امثلتها من الاسانيد وقلوا اسم العدالة والصبط يشتمل رجالها كلها ولكن بعضها فوق بعض واما اطلاق اصح والسيد على سند مخصوص على الاطلاق فقال بعضهم الاسانيد على سند مخصوص على الاطلاق فقيد اختلاف فقال بعضهم اسم العائيد زين العابدين عن ابية عن جدّة وقيل مالك عن نافع عن ابن عمر وقيل الروى عن سالم عن ابن عمر والحقّ ان الحكم على اسناد ابن عمر وقيل الروى عن سالم عن ابن عمر والحقّ ان الحكم على اسناد مخصوص بالاصحية على الاطلاق غير جايز الا ان في الصحة مراتب عليا وعدة من الاسانيد يدخل فيها ولو قيد بقيد بان يقال اصحّ اسانيد البلد وعدة من الباب الفلاني او في المسيلة الفلانية يصحّ والله اعلم

من عادة الترمذى ان يقول فى جامعه حديث حسن سحيم حديث غريب حسن حديث حسن حديث حسن عربب صحيح ولا شبهة فى جواز اجتماع الحسن والصحة بأن يكون حسنا لذاته وسحيحا لغيرة وكذلك فى اجتماع الغرابة والصحة كما اسلفنا واما اجتماع الغرابة والحسن فيستشكلونه بأن الترمذى اعتبر فى الحسن تعدد الطرق فكيف يكون غريبا وجيبون بأن اعتبار تعدد الطرق فى الحسن ليس على الائلاق بل فى قسم منه وحيث حكم باجتماع الحسن والغرابة المراد قسم اخر وقال بعضهم انه اشار بذلك الى اختلاف الطرق بأن جاء فى بعض الطرق غريبا وفى بعضها حسنا وقبل

الواو معنى او بانه يشكّ ويتردد في انه غريب اوحسن لعدم معرفته جزما وقيل المراد بالحسن ههنا ليس معناه الاصطلاحي بل اللغوى معنى ما عيل اليد الطبع وهذا القول بعيد جدا

فصل

الاحتجاج في الاحكام بالخبر الصحيح مجمع عليه وكذلك بالحسن لذاته عند عامة العلماء وهو ملحق بالصحيح في باب الاحتجاج وان كان دونه في المرتبة والحديث الصعيف الذي بلغ بتعدد الطرق مرتبة الحسن لغيرة ايصا مجتمع وما اشتهر أن الحديث الصعيف معتبر في فصابيل الاعمال لا في غيرها المراد مفرداته لا مجموعها لانه داخل في الحسن لا في الصعيف صرح به الايمة وقل بعضهم ان كان الصعيف من جهة سوء حفظ او اختلاط او تدليس مع وجود الصدي والديانة ينجبر بتعدد الطرق وان كان من جهة اتهام الكذب او الشذوذ او فحش الخطا لا ينجبر بتعدد الطرق والحديث محكوم عليه بالصعف و معمول به في فصايل الاعمال وعلى مثل وأحديث محكوم عليه بالصعف و معمول به في فصايل الاعمال وعلى مثل هذا ينبغي لن جمل ما قبل لحوق الصعيف بالضعيف لا يفسد قوة والا فهذا القول ظاهر الفساد فتدبر

" Section.

"Traditions are generically distinguished as sound (صحيح), fair محيج), and weak (ضعيف).

"Sound tradition is the highest in grade, the weak is the lowest, and the fair stands mid-way; and all the above mentioned subdivisions are

comprehended under these three denominations.

 tion consists only in a want of weight of retentiveness on the part of its reporters, while all the other qualities of the sound remain intact.

" Section.

"Sound tradition reported by one reporter is called unrelated tradition (غييب); if it come from two reporters, it is called rare tradition (عزيز); if its reporters are more in number, it is called notorious (عزيز) or wide-spread (مستفيص) tradition; if its reporters are so numerous that the supposition of an agreement to deceive is made absurd by the habitual repetition of it, it is called reiterated tradition (متواتر).

"Unrelated tradition is also called unique (غرف), and what is meant by its being reported by one reporter is that it stands thus by itself: if, indeed, this is true of it as regards only one link in the support, it is called relatively unique (غرف نسبى); but if as regards every link pertaining thereto, it is called absolutely unique (غرف مناق). The meaning of a tradition's being from two reporters is that it has two reporters at each link in its support: should this be true of it at only one point, the tradition is not rare, but unrelated. Multiplicity of reporters, as made account of in the case of notorious tradition, is to be understood after this analogy, to mean that there are more than two at each link in the support. Such is the signification of the common saying that the less overrules the more in respect to this species. Be, therefore, wary.

"From what has been said one may know that the fact of a tradition being unrelated is not inconsistent with soundness, and that it is sound without affinity (حجيم غريب), provided each of the guarantees making up its line of descent be a reliable authority. The term 'unrelated' is also used as synonymous with 'separate,' that is, separate by a want of analogy which constitutes one of the forms in which tradition is dishonored: such is the meaning of a remark made by the author of the Masabîh,* namely: 'As stated by him, this tradition is unrelated,' for he would intimate that the tradition is dishonored. Some persons, however, as before said, explain the term 'separate' to mean tradition which has but one reporter, whether he be at variance with reliable authorities or not, and say: 'sound and separate,' or 'sound not separate:' in this sense, separateness, being nothing more than the fact that a tradition is unrelated, is not inconsistent with soundness. But that separateness which is intended to attach dishonor to a tradition, must be variance from reliable authorities.

" Section.

"Weak tradition is that in which either all or some of the conditions considered as requisite to soundness and fairness are wanting—of which, therefore, the reporter is marked by something of separateness, inde-

^{*} i. e. Masabih 'as-Sunnah, a collection of traditions made by 'al-Baghawî, who died A. H. 516. The Mishkat 'al-Masabih mentioned in our introductory remarks is a recension of this work. See Haji Khalf. Lex., v. 564, ff.

terminateness, or speciousness. This definition is, in effect, an enumeration of the subdivisions of weak tradition. It is more or less weak

according as its characteristics exist singly or in combination.

"The degrees of sound and fair tradition, also—including both the intrinsically and the extrinsically sound and fair—vary according to the gradations and measures therein existing of completeness in respect to the qualities noted and assumed as belonging to the conception of the two respectively, there being in all a participation in the fundamental quality of soundness or fairness. Certain persons have noted down and distinguished the several degrees of soundness, and cited supports exemplifying them; and it is their declaration that uprightness and retentiveness are qualities possessed in common by all guarantees constituting supports of that character, though some such supports take precedence over others.

"With regard to what particular support should be viewed as absolutely the soundest, there is difference of opinion. Some say that the soundest of all supports is: 'Zain 'al-'Abidîn, on the authority of his father, on the authority of his grandfather;' others that it is: 'Mâlik, on the authority of 'Ibn 'Umar;' others again give the preëminence to: ''Az-Zuhrì, on the authority of Sâlim, on the authority of 'Ibn 'Umar.' But the truth is that to attribute to any particular support the quality of preëminent soundness, absolutely, is not allowable: we can only distinguish higher degrees of soundness from those which are lower, and a number of representative supports, taken together, from certain others. If a limitation is indicated, by saying that such is 'the soundest tradition of the country so and so' (or, 'under such a head,' or, 'on such a topic,') it is all right—God knows.

" Section.

"Among the expressions habitually used by 'at-Tarmidhî in his Jâmi', are the following: 'a fair and sound tradition,' 'an unrelated and fair tradition,' and 'a fair, unrelated and sound tradition.' Now, there is no doubt that, inasmuch as a tradition may be fair, as viewed by itself, and at the same time sound, taken in connection with other traditions, fairness and soundness may be combined; so, too, the quality of being nnrelated is compatible with soundness, as we have already stated. But the combination with fairness of the quality of being unrelated is found difficult to be understood, since 'at-Tarmidhî considered multiplicity of ways of descent to be a characteristic of fair tradition; for how, then, can fair tradition be unrelated? To this it is replied, that the consideration of multiplicity of ways of descent as a characteristic of fair tradition is not absolute, but has reference to one subdivision of it, and that, wherever tradition is represented as combining fairness with the quality of being unrelated, another subdivision of fair tradition must be intended. Some persons, however, say that the author makes allusion, in that expression, to the descent of a tradition by various ways, it having come down unrelated by one way, and fair by another. It is also said that the conjunction ; [in the expression "unrelated and fair"] may be interpreted as equivalent to 3, denoting a doubt and indecision whether the tradition was unrelated, or fair, from the

want of definite knowledge. Another suggestion is that 'fair,' in the case referred to, has not its technical meaning, but its signification as used in common parlance, denoting that by which man is naturally attracted—which is very far-fetched.

" Section.

"It is universally agreed that, in judicial decisions, one may argue from a traditional statement (الخبر) which is sound; and most of the doctors allow of arguing, in like manner, from one which is intrinsically fair, and such tradition is actually coupled with the sound in argumentation, although its grade is inferior. Such weak tradition, also, as attains, by multiplicity of ways of descent, to the rank of extraneously fair, is used together with the other sorts. The widely received opinion that weak tradition is to be taken into account on the subject of the active virtues, though not on any other topic-meaning single traditions of this sort, not a combination of several, for otherwise they should be called fair, and not weak—is distinctly expressed by eminent teachers: and some of them say that, if a tradition is weak on account of defective memory, or confusion, or disguising, while yet the reporter was truthful and religious, it may be elevated in rank by multiplicity of ways of descent; but that, it it is weak on account of a falsifying indulgence of fancy, or separateness, or blamable error, it is not elevated by multiplicity of ways of descent, and is judged to be weak, and treated accordingly, even on the subject of the active virtues. Agreeably to some such explanation must, also, be understood the saying that the coupling of the weak with the weak hinders not force; otherwise, this saying is manifestly incorrect. Proceed, therefore, with care."

Another statement of the distinctive peculiarities of sound, fair, and weak tradition, as well as of the subordinate varieties included in each of these leading divisions, is presented in one of the chapters of J., which we here give entire, as follows:*

الباب الاول فى اقسام الحديث وانواعه وفيه ثلثنفرفصول الفصل الاول فى الصحيح

عوما اتصل سنده بنقل العدل الصابط عن مثله وسلم عن شذوذ وعلّة ونعنى بائتصل ما لم يكن مقطوعا باى وجه كان وبالعدل من لم يكن مستور العدالة ولا تجروحا وبالصابط من يكون حافظا متيقظا وبالشذوذ ما يروية الثقة تخالفا لرواية الناس وبالعلّة ما فيه اسباب خفية غامضة قادحة وتتفاوت

^{*} pages 1-5.

فرجات الصحيم بحسب قوة شروطه وضعفها واول من صنف في الصحيم المجرد الامام البخارى فر مسلم وكتاباها اصتح الكتب بعد كتاب الله العزيز واما قول الشافعي رح ما اعلم شيًا بعد كتاب الله اصتح من موطأ مالك فقبل وجود الكتابين واعلى اقسام الصحيم ما اتفقا عليه ثر ما انفرد به البخارى الله ما انفرد به مسلم الله ما كان على شرطهما وان له يخرجاه الله على شرط البخارى قر على شرط مسلم قر ما صحّحه غيرها من الأبِّمة فهذه سبعة اقسام وما حذف سنده فيهما وهو كثير في تراجم البخاري قليل جدًّا في كتاب مسلم فها كان منه بصيغة الجزم نحو قال فلان وفعل وامر وروى وذكم معروفا فهو حكم بصحّته وما روى من ذلك مجهولا فليس حكما بصحّته ولكن ايراده في كتاب الصحيح مشعر بصحة اصله واما قول الحاكم اختيار البخاري ومسلم أن لا يذكرا في كتابيهما الاما رواه الصحابي المشهور عن رسول الله صلى الله عليه وسلم وله راويان ثقتان فاكثر ثمر يرويه عنه تابعي مشهور وله ايصا راويان ثقتان فاكثر ثم كذلك في كل درجة ففيه بحث قال الشيخ محى الدين النووى رح ليس ذلك من شرطهما لاخراجهما احاديث ليس لها الا اسناد واحد منها حديث انما الاعمال بالنيات ونظايِّه في الصحيحين كثيرة قال ابن حبان تفرد جديث انما الاعمال اهل المدينة وليس هو عند اهل العراق ولا عند اهل مكة واليمن ولا الشام ومصر وراوية هو بحى بن سعيد القطان عن محمد بن ابراهيم عن علقمة عن عمر بن الخطاب رضه هكذا رواه البخارى ومسلم وابو داود والترمذي والنسائيي وابن ملجة مع اختلاف في الرواة بعد جي يعرف بالرجاع الى هذه الصحاح الغصل الثاني

في الحسن

الترمذى هو ما لا يكون فى اسنادة متهم ولا يكون شاذا ويروى من غير وجه تحوة للخطابى ما عرف مخرجه واشتهر رجاله وعليه مدار اكثر الحديث فالمنقطع وتحوة عالم يعرف مخرجه وكذا المدلس اذا لم يبين بعض المتأخريين هو الذى فيه صعف قريب محتمل ويصلح للمل به ابن الصلاح هو قسمان احدها ما لم يخل رجال اسنادة عن مستور غير معقل في رواية وقد روى مثله او نحوة من وجه اخر والثانى ما اشتهر راويد بالصدى والامانة وقص

عن درجة رجال الصحيح حفظا واتقانا بحيث لا يعدّ ما انفرد به منكرا ولا بدّ في القسمين من سلامتهما عن الشذوذ والتعليل قيل ما ذكره بعض المتأخرين بني على ان معرفة الحسن موقوفة على معرفة الصحيم والصعيف لانه وسط بينهما فقوله قريب اى قريب مخرجه الى الصحيم محتمل كذبه لكون رجاله مستورين والفرق بين حدى الصحيم والحسن ان شرايط الصحيح معتبرة في حد الحسن لكن العدالة في التدحيم ينبغي ان يكون طاهرة والاتقان كاملا وليس ذلك شرطا في الحسن ومن ثم احتاج الى قيد قولنا أن يروى من غير وجه مثله أو تحوة لينجبر به فالضعيف هو الذي بعد عن الحرج الصحيح الحرجة واحتمل الصدي والكذب أو لا يحتمل الصدي اصلاً كالموضوع وانما سمى حسنا لحسن الظن براويه ولو قيل الحسن عو مسند من قرب من درجة الثقة او مرسل ثقة وروى كلاها من غير وجه وسلم عن شذوذ وعلَّة لكان اجمع الحدود واصبطها وابعدها عن التعقيد ونعنى بالسند ما اتصل اسناده الى منتهاه وبالثقة من جمع بين العدالة والصبط والتنكير في ثقة للشيوع كما سياتي بيانه في نوع المرسل والحسن ججة كالصحيرم ولذلك ادرج في الصحيرم قل ابن الصلاح تسمية محى السنة في المعابيج السنى بالحسان تساهل لان فيها الصحاح والحسان والضعاف وقول الترمذي حديث حسن محيم يريد به أنه روى باسنادين احداما يقتصى الصحة والاخر الحسن او المراد اللغوى وهو ما تميل اليه النفس و تستحسنه والحسن اذا روى من وجه اخر ترقى من الحسن الى الصحيم لقوته من الجهتين فيعتصد احداها بالاخر ونعني بالترقى انه ملحق في القوة بالصحيم لا انه عينه واما الصعيف فلكذب راويه وفسقه لا ينجبر بتعدد طرقه كما في حديث طلب العلم فريضة قل البيهقي هذا حديث مشهور بين الناس واسناده ضعيف وقد روى من اوجه كثيرة كلها ضعيف

ألغصل الثالث

في الضعيف

هو ما لم يجتمع فيه شروط الصحيح والحسن ويتفاوت درجاته في الصعف بحسب بعده من شروط الصحة والحسن ويجور عند العلماء التساعل في السائيد الصعيف دون الموضوع من غير بيان ضعفه في المواعظ والقصص

وفضايل الاعمال لا في صفات الله تعالى واحكام الحلال والحرام قيل كان من مذهب النسائيي ان يخرج عن كل من لم يجمع على ترك له وابو داود كان يأخذ مأخذه ويخرج الصعيف اذا لم يجد في الباب غيره ويرحجه على رأى الرجال وعن الشعبي ما حدثك عن الذي صلى الله عليه وسلم هؤلاء فخذ به وما قالوة برائيهم فائقه في الحشّ وقال الراي بمنزلة الميتذ اذا اضطررت اليها اكلتها وعن الشافعي رح مهما قلت من قول او اصلت من اصل فيه عن رسول الله صلى الله عليه وسلم خلاف ما قلت فالقول ما قاله صلى الله عليه وسلم وهو قولى وجعل يردده و ههنا عدة عبارات منها ما يشترك فيه الاقسام الثلثة اعنى الصحيح والحسن والصعيف ومنها ما يختص بالصعيف

في الاول المسند هو ما اتصل سنده مرفوعا الي رسول الله صلى عليه وسلم والمتصل هو ما اتصل سنده سواء كان مرفوع اليه صلى الله عليه وسلمر او موقوفا والمرفوم هو ما اضيف الى الذي صلى الله عليه وسلم خاصة من قول او فعل او تقرير سواء كان متصلا او منقطعا فالمتصل قد يكون مرفوعا وغيم مرفوع والمرفوع قد يكون متصلا وغير متصل والمسند متصل مرفوع والعنعن هو ما يقال في سنده فلان عن فلان والصحيم انه متصل اذا امكن اللقاء مع البراعة من التدليس وقد أودع في الصحيحين قال ابن العلاج كثر في عصرنا وما قاربه استعمال عن في الاجازة وأذا قيل فلان عن رجل عن فلان فالاقرب انه منقطع وليس عرسل والمعلق ما حذف من مبدء اسناده واحد فاكثر مأخوذ من تعليف الجدار والطلاق لاشتراكهما في قطع الاتصال فالحذف اما ان يكون في اول الاسناد وهو المعلق او وسطه وهو المنقطع او في اخرة وهو المرسل والبخاري اكثر من هذا النوع في عصيحة وليس بخارج من الصحيح لكون الحديث معروفا من جهة الثقات الذين علق عنهم او لكونه ذكره متصلا في موضع اخر من كتابه والافراد اما فرد عن جميع الرواة او من جهة تحو تفرد به اهل مكة فلا يضعف الا أن يراد به تفرد واحد منهم والمدرج هو ما ادرج في الحديث من كلام بعض الرواة فيظن انه من الحديث او ادرج متنان باسنادين كرواية سعيد بن ابي مريم لا تباغضوا ولا تحاسدوا ولا تدابروا ولا تنافسوا ادرج ابن ابي مريم فيه ولا تنافسوا من متن اخر او عند الراوى طرف من متن واحد بسند شيخ هو غير سند المتن فيرويهما عنه بسند واحد فيصير الاسنادان اسنادا واحدا او يسمع حديثا واحدا من جماعة مختلفين في سنده او متنه فيدرج روايتهم على الاتفاق ولا يذكر الاختلاف وتعهد كل واحد من الثلثة حرام والمشهور ما شاع عند اهل الحديث خاصة بان نقله رواة كثيرون تحو ان رسول الله صلى الله عليه وسلم قنت شهرا يدعوا على جماعة او اشتهر عندهم وعند غيرهم تحو انما الاعمال بالنيات او عند غيرهم خاصة قال الامام احمد قوله للسائل حق وان جاء على فرس ويوم تحركم يوم صومكم يدوران في الاسواق ولا اصل لهما في الاعتبار والغريب والعزيز قيل الغريب كحديث الزعرى واشباعه عن يجمع حديثه لعدالته وضبطه اذا تفرد عنهم بالحديث رجل یسمی غریبا فان رواه عنهم اثنان او ثلثة یسمی عزیزا وان رواه جماعة يسمى مشهورا والافراد المصافة الى البلدان ليست بغريب والغريب اما صحيح كالافراد المخرجة في الصحيج اوغير محيح وهو الاغلب والغريب ايصا ما غريب اسنادا ومتنا وهو ما تفرد برواية متنه واحد واسنادا لا متنا كعديث يعرف متنه عن جماعة من الصحابة اذا تفرد بروايته واحدعن صحابي اخر ومنه قول الترمذي غريب من هذا الوجه ولا يوجد ما فو غريب متنا لا اسنادا الا انا اشتهر الحديث الفرد فرواه عمن تفرد به جماعة كثيرة فانه يصيم غريبا مشهورا واما حديث انما الاعمال بالنيات فان اسناده متصف بالغرابة في طرفه الاول متصف بالشهرة في طرفه الاخر والمصحف قد يكون في الراوى كحديث شعبة عن العوامر بن مراجم بالراء والجيم محفة يحى بن معين فقال مزاحمر بالزاى والحاء المهملة وقد يكون في الحديث كقوله صلى الله عليه وسلمر من صام رمصان واتبعه ستا من شوال صحفه بعضهم فقال شيًا بالشين المجمة والمسلسل هو ما تتابع فيه رجال الاسناد الى رسول الله صلى الله عليه وسلم عند روايته على حالة واحدة اما في الراوى قولا تحو سمعت فلانا يقول سمعت فلانا الى المنتهى او اخبرنا فلان والله قال اخبرنا فلان والله الى المنتهى او فعلا كحديث التشبيك باليد أو قولا وفعلا كما في حديث اللهم اعنى على ذكرك وشكرك وحسن عبادتك وفى رواية ابى داود واحمد والنسائي قال الراوى اخذ رسول الله صلى الله

عليه وسلم بيدى فقال انى لاحبك فقل اللهمر اعنى الخ واما على صفة كحديث الفقهاء فقيه عن فقيه المتبايعان بالخيار ما فريتفرقا واما في الرواية كالمسلسل بانفاق اسماء الرواة واسماء اباء ثم او كناهم او انسابهم او بلدانهم قال الامام النووى وانا اروى ثلثة احاديث مسلسلة بالدمشقيين والاعتبار هو النظر في حال للحديث هل تنفرد به راويه ام لا وهل هو معروف او لا والصرب الثاني ما يختص بالصعيف الموقوف وهو مطلقا ما روى عن الصحابي من قول او فعل متصلا كان او منقطعا وهو ليس جحجة على الاصحّ وقد يستعمل في غير الصحابي مقيدا تحو وقفه معمر على هام ووقفه مالك على نافع وقول محابى كنا نفعله في زمن النبي صلى الله عليه وسلم مرفوع لان الظاهر الاطلاع والتقرير وكذا كان اصحابة يقرعون بابه بالاظافيم مرفوع في المعنى وتفسير الصحابي موقوف وما كان من قبيل سبب النزول كقول جابر كانت اليهود تقول كذا فانزل الله سجانه وتعالى كذا وحوه مرفوع المقطوع ما جاء عن النابعين من اقوالهم وافعالهم موقوفا عليهم وليس بحجة المرسل قول التابعي قل رسول الله صلى الله عليه وسلم كذا او فعل كذا وهو المعروف في الفقه واصوله وفيه خلاف وللشافعي رح تفصيل مذكور في اصول الفقه المنقطع ما فريتصل اسناده بلى وجه كان سواء ترك ذكر الراوى من اول الاسناد او وسطه او اخره الا أن الغالب استعاله في من دون التابعي عن الصحابي كمالك عن ابن عمر المعصل بغته الصاد وهو ما سقط من سنده اثنان فصاعدا كقول مالك قال رسول الله صلى الله عليه وسلم وقول الشافعي قال ابن عمر كذا الشاذ والمنكر الشافعي رحمه الله الشاذ ما رواه الثقة مخالفا لما رواه الناس قال ابن الصلاح فيه تغصيل ها خالف مفرده احفظ منه واصبط فشاذ مردود وان فريخالف احفظ منه وهو عدل صابط فصحيم وان رواه غير ضابط لكن لا يبعد عن درجة الصابط نحسن وان بعد فنكم ويفهم من قوله احفظ واضبط على صيغة التفصيل أن المخالف أن كان مثله لا يكون مردودا وقد علم من هذا التقسيم أن المنكر ما هو المعلل ما فيه اسباب خفية غامصة قادحة والظاهر السلامة ويستعان على ادراكها بتفود الراوى ومخالفة غيره له مع قرأين تنبه العارف على ارسال في الموصول او وقف في المرفوع او دخول حديث في حديث او وهم واهم بحيث يغلب على ثنة ذلك فيحكم به او يتردد فيتوقف وكل ذلك مانع عن الحكم بصحة

ما وجد ذلك فيه وحديث يعلى بن عبيد عن الثوري عن عمرو بن دينار عن ابي عمر عن النبي صلى الله عليه وسلم البيعان بالخيار اسناده متصل عن العدل الصابط وهو معلل والمتن صحيم لان عمرو بن دينار وضع موضع اخيد عبد الله بن دينار فكذا رواه الابهة من اصحاب الثوري عنه فوهم يعلى وقد يطلق اسمر العلة على الكذب والغفلة وسوء الحفظ ونحوها وبعصهم اطلقه على مخالفه لا يقدح كارسال ما وصله الثقة الصابط حتى قال من الصحيم ما هو عميم معلل كما قال اخر من الصحيم ما هو عميم شاذ ويدخل في هذا حديث يعلى بن عبيد البيعان بالخيار المدلس ما اخفى عيبه اما في الاسناد وهو ان يروى عمن لقيه او عاصره ما لم يسمعه منه على سبيل يوم انه سمعه منه في حقه ان لا يقول حدثنا بل يقول قال فلان او عن فلان وتحوة وربما لم يسقط المدلس شيخه لكن يسقط من بعده رجلا ضعيفا او صغير السي يحسن الحديث بذلك كفعل الاعمش والثورى وغيرهما وهو مكروة جدا وذمه اكثم العلماء واختلف في قبول روايته والاصح التفصيل فما رواه بلفظ محتمل لمريبين فيه السماء فحكمه حكم المرسل وانواعه وما رواه بلغظ مبين للاتصال كسمعت واخبرنا وحدثنا واشباعها فهو محتج به واما في الشيوخ وهو أن يروى عن شبخ حديثا سمعه فيسميه او يكنيه او ينسبه او يصفه بما لا يعرف به كيلا يعرف وامره اخف لكن فيه تصييع للمروى عنه وتوعير بطريق معرفة حاله والكراهة بحسب الغرض للحامل عليه نحوان يكون كثير الرواية عنه فلا يحب الاكثار من واحد على صورة واحدة وقد يحمله عليه كون شيخه الذي غيّر سمته غيم ثقة او اصغر منه او غير ذلك المصطرب ما اختلفت الرواية فيه فا اختلفت الروايتان ان ترجحت احديهما على الاخرى بوجه تحو ان يكون راويهما احفظ واكثر محبة للمروى عنه فالحكمر للراجيح فلا يكون حينيذ مصطربا والا فصطرب المقلوب هو تحو حديث مشهور عن سالم جعل عن نافع ليصير بذلك غريبا مرغوبا فيه وحديث البخارى حين قدم بغداد وامتحان الشيوخ اياه بقلب الاسانيد مشهور الموضوع الخبر اما ان يجب تصديقه وهو ما نص الايمة على محته واما ان جبب تكذيبه وهو ما نصوا على وضعه أو يتوقف فيه لاحتمال الصدي واللذب كسابًر الاخبار ولا يحل

رواية الموضوع للعالم بحاله في اى معنى كان الا مقرونا ببيان الوضع ويعرف يافرار واضعه او ركاكة الفاظه او بالوقوف على غلط كما وقع لثابت ابن موسى الزاهد في حديث من كثرت صلوته بالليل حسن وجهه بالنهار قيل كان شيخ جلت في جماعة فلاخل رجل حسى الوجه فقال الشيخ في اثناء حديثه من كثرت المخ فوقع لثابت انه من الحديث فرواه والواضعون للحديث اصناف واعظمهم ضررا من انتسب الى الزهد فوضع احتسابا ووضعت الزنادقة ايضا جملا ثر نهضت جهابذة الحديث بكشف عوارها ومحو عارها والحمد لله وقد ذهبت الكرامية والطايّفة المبتدعة الى جواز وضع الحديث في الترغيب والترهيب ومنه ما روى عن ابي عصمة نوح ابن مريم انه قيل له من اين لك عن عكرمة عن ابن عباس في فصايل القران سورة سورة فقال انى رأيت الناس قد اعرضوا عن القران واشتغلوا بفقه الى حنيفة ومغازى محمد بن اسحاق فوضعت هذه الاحاديث حسبة وقد اخطأ المفسرون في ايداعها في تفاسيرهم الا من عصمه الله وما اودعوا فيها انه قال صلى الله عليه وسلم حين قرأ ومناة الثالثة الاخرى تلك الغرانيف العلى وان شفاءتهن لترتجى ولقد اشبعنا القول في ابطاله في باب سجده التلاوة وكذا ما اوزره الاصوليون من قوله اذا روى عنى حديث فاعرضوه على كتاب الله فان وافقه فاقلبوه وان خالفه فردوه قال الخطابي وضعته الزنادقة ويدفعه قوله ص أنى قد اوتيت الكتاب وما يعدنه ويروى اوتيب الكتاب ومثله معه وقد صنف ابن للوزى في الموضوعات مجلدات قال ابن الصلاح أودع فيها كثيرا من الاحاديث الصعيفة عا لا دليل على وضعه وحقها ان يذكم في الاحاديث الصعيفة وللشيخ الحسن بن محمد الصغاني الدر الملتقط في تبين الغلط

"CHAPTER FIRST.

" Kinds and Species of Tradition, in Three Sections.

"SECTION FIRST.

" Sound Tradition.

"This is that of which the support is continuous, by the transmission of an npright and retentive reporter, on the authority of his like, and which is free from separateness and speciousness. We mean by 'continuous' that which is not, in any manner whatever, interrupted (مقطوع);

by 'upright,' one whose uprightness is neither doubtful nor dishonored; by 'retentive,' one who is vigilant to remember; our use of 'separateness' refers to that which a reliable authority reports at variance with the general report; and under 'speciousness' we allude to tradition in which certain hidden, subtle assumptions, injurious to its character, are involved. The degrees of sound tradition differ from one another in proportion to the strength or weakness of its conditions. 'Al-Bukhârî was the first to compose a book of sound tradition alone; the next was Muslim; and their two books are the most perfect of all books after the Glorious Book of God: as for the saying of 'ash-Shâfi'i-to whom may God be merciful!—'I know of no book, after the Book of God, more perfect than the Muwatta of Malik, ** that was said before the existence of the books of 'al-Bukhari and Muslim. Now, the highest subdivision of sound tradition is that which these two authors agree in bringing forward; the next is that which 'al-Bukhari alone presents; then comes that which Muslim alone presents; then that which accords with the conditioning of the two, although not given out by both; then that which is in accordance with what 'al-Bukhari stipulates; then that which accords with what Muslim stipulates; and last, that which other eminent teachers regard as sound—in all, seven subdivisions.

"With respect to traditions, found in the two books, of which the reports are abridged-numerous in the chapters of 'al-Bukhari, and very few in Muslim's book-those of them which are given in an expressly coneise form, for example: 'Such a one says' (or 'did,' or 'commands,' or 'reports,' or 'states,') '[so and so],' as being well known, are judged to be sound; but those which are given as if there were want of knowledge respecting them are not deemed sound, while yet their being brought forward in a book of sound tradition indicates the

soundness of their originals.

"The saying of 'al-Hakim, that 'al-Bukhari and Muslim chose to state, in their books, only those traditions which are reported by some well known witness of the Prophet, on the authority of the Messenger of God ..., and handed down by two reliable authorities, and so continued on; and which are also reported by some well known follower of the Prophet in the second degree, on the authority of a witness, and so continued on; and of which the like of this is true at each stage,' has been made the subject of dispute. The master Muhi 'ad-din 'an-Nawawî †-to whom may God be merciful!-denies that such stipulations were made by the two authors, because they actually give out traditions with only one support, as, for example, the tradition: 'Ac-

who is said to have been "preeminent in knowledge of the conditions of sound tradition," died A. H. 378. See Kitab Tab., xii. 59.

^{*} The Mucatta' of Malik Bin 'Anas is by some Arab authors supposed to have been the earliest book composed by a Muslim. Others give the preëminence to a collection of traditions made by 'Ibn Juraij. See Haji Khalf. Lex., iii. 28. † 'Abû-'Ahmad of Nîsâpûr, surnamed the Great Judge ('al-Hâkim 'al-Kabîr),

t 'An-Nawawî of Damascus, the author of several useful works on tradition and jurisprudence, and among others of a commentary on Muslim's collection of traditions, which is frequently cited on the margin of the Dehli edition of this work, died A. H. 676. See Kitáb Tab., xx. 3.

tions are only according to intentions,"* of the like of which many are to be found in the two Salihs. 'Ibn Hibbân† says that the tradition: 'Actions are only according to intentions' belonged to the people of Madînah alone, and was not known among the inhabitants of 'Irâk, nor of Makkah, nor of Yaman, Syria, or Egypt, and that its reporter is Yahya Bin Sa'id 'al-Kaṭṭân, on the authority of Muḥammad Bin 'Ibrâhîm, on the authority of 'Alkamah, on the authority of 'Umar Bin 'al-Khaṭṭâb—to whom may God be gracious!—and it is thus handed down by 'al-Bukhârî and Muslim, as well as by 'Abū-Dawud, 'at-Tarmidhî, 'an-Nasâ'î and 'Ibn Mâjah, with some difference in respect to the reporters after Yahya, which may be ascertained by reference to the Salihs of these authors.

"SECTION SECOND.

" Fair Tradition.

"According to 'at-Tarmidhî, this is that of which the support includes no suspected reporter, and which is not separate, and is equivalently reported in some other form. According to 'al-Khaṭṭābī,† it is that given out by a recognized traditionist, of which the guarantees are persons of reputation, and which forms the centre of a cluster of traditions; and so dissevered tradition, and the like, in the view of this teacher, is that given out by some one not recognized, as also the disguised, in case there is no explanation of it. According to certain of the moderns, it is that in which there is something of weakness, and which, while almost up to the mark, may be regarded diversely, and is at the same time of a practical character. According to 'Ibn'aṣ-Ṣalāḥ,\sqrt{\text{s}} there are two subdivisions of it: first, that of which the support includes some guarantee who is questionable, though not convicted of

باب ما جاء ان الاعمال بالنينة وللسبنة وللل امرى ما نوى فدخل فيه الايمان والوضو والصلاة والزكاة وللج والعموم والاحكام وقال قل كل يعمل على شاكلته على نيته ونفقة الرجل على اهله بحتسبها صدقة وقال صلى الله عليه وسلم ولكن جهاد ونية

^{*} This tradition, in the form "Actions are according to the intention," is found in one of the chapters of the Book of the Faith of 'al-Bukhâri's Ṣaḥiḥ. The heading of the chapter is as follows:

[&]quot;Chopter of information that actions are according to the intention and purpose, and that every man is credited for that which he intends; so that intention comprehends both belief, purification, prayer, alms-giring, pilgrimage and fasting, and the subordinate requirements of law—as, indeed, it is said in the Kurán [xvii. 86] 'Declare thou, that whoever performs required action in purpose, i. e. so far as intention goes, etc.; and a man's expenditure upon his people is there reckaned as alms giving; and it was a saying of the Prophet: '... but a warring for the faith with an intention." See MS., fol. 5, rect.

^{† &#}x27;Ibn Hibbân of Samarkand, who was not only a jurist and traditionist, but also an astronomer, physician, etc., died A. H. 354. See Kitâb Tab., xii. 30.

[†] Of Sabtah in North-W. Africa: he died A. H. 388. See Kitab Tab., xiii. 20. § By birth a Kurd, who became one of the most distinguished of the interpreters of the Kuran, and the traditionists and jurists of his time: he died A. H. 643. See Kitab Tab., xviii. 21.

carclessness in any report, and which is reported in the same words, or equivalently, by another way of descent; and second, that reported by a man of reputation for truthfulness and trustiness, though, in respect to memory and confidence of knowledge, of a grade below the guarantees of sound tradition—so that it is not accounted as that sort of tradition received on a single authority, which is undetermined—and both subdivisions must necessarily be clear of separateness and speciousness. All these different views have been expressed.

"The foundation of the statement of certain of the moderns is the principle that a knowledge of fair tradition depends upon a knowledge of the sound and the weak, because it stands midway between the two; their expression 'almost up to the mark,' therefore, means that it is almost equal to sound tradition as regards the person who gives it out; and that it 'may be regarded diversely' signifies the possibility of its falsity, on account of the doubt which there is in respect to the char-

acter of its gnarantees.

"The boundary-line between the sound and the fair is marked by the circumstance that, while the conditions of sound tradition are reckoned in for the definition of the fair, yet uprightness must be manifest, and confidence of knowledge perfect, for sound tradition—which is not essential for the fair; and hence arises the necessity of that requisition signified by the words above used: 'reported, in the same words or equivalently, by another way of descent,' in order that one tradition may make good the other. Weak tradition, then, is that which is brought out by a reporter widely differing in character from one who brings out sound tradition, and which may be either true or false, or cannot be supposed unconditionally true, as, for example, suppositions tradition. of 'fair' is given to tradition only on account of the fairness of the reputation of its reporter; and if one should say that fair tradition is that which is sustained, given out by a reporter nearly equal in grade to the reliable authority, or that which a reliable authority lets go loose, being in either case reported also by another way of descent, and free from all separateness and speciousness—that would be the most comprehensive and exact, and the least involved, definition: by the expression 'sustained' we mean that of which the support is continuous to its end; and by 'the reliable authority,' one who unites uprightness and retentiveness—we say, indefinitely, 'a reliable authority' [in the expression: 'that which a reliable authority lets go loose', because our ineaning, which we shall explain under the head of loosened tradition, is too well known to need specification.

"Fair tradition is legal proof, like the sound, and, so far as that goes, is ranked with the latter: says 'Ibn 'as Ṣalâḥ: 'There is a lack of strictness in Muḥî 'as-sunnah's designation of traditions as fair, in the Ma-sâbiḥ, because among those so called are included both sound and fair and weak.' But 'at-Tarmidhi's expression: 'a fair and sound tradition' signifies that it is reported with two supports, of phich the one makes it to have the quality of soundness, and the other that of fairness; or else the meaning of 'fair' is that recognized in common parlance, namely, something towards which man's sensitive nature is attracted, and which it esteems.

"The reporting of a fair tradition by some other way of descent may elevate it from the rank of the fair to that of the sound, for its strength lies in both aspects of it, and so the one way of descent may be helped out by the other: we mean by 'elevation' (انترقی) that a tradition partakes of the strength of sound tradition, not that it is intrinsically sound. As to weak tradition, inasmuch as the reporter of such is chargeable with either falseness or impiety, it cannot be strengthened by multiplicity of ways of descent, which is true, for example, of the tradition: 'The investigation of science is a revealed requirement:' this tradition, in the words of 'al-Baihakî, is one widely known among men, with a weak support—it is reported, indeed, by many ways of descent, every one of which is weak.

"SECTION THIRD.

" Weak Tradition.

"This is that which does not embrace the conditions of the sound and the fair. It varies in degrees of weakness in proportion as it is remote from the conditions of soundness and fairness. In the opinion of the doctors, a laxity respecting the supports of weak tradition, with the exception of the suppositious, is admissible, to the neglect of any declaration of its weakness, in the case of admonitions, narratives, and the active virtues, but not when the tradition has reference to the attributes of the Supreme God, or to judicial decisions with regard to the lawful and the forbidden. The practice of 'an-Nasâ'i is said to have been to give out tradition on the authority of any one whom men had not agreed to abandon as a guide; 'Abû-Dâwud was accustomed to take whatever offered, to give out weak tradition when he found no other under a particular head, and to ascribe to that a weight superior to the mere judgment of the guarantees; 'ash-Sha'bî,* also, is said to have remarked: 'Whatever these persons tell thee for a tradition, take it up; but cast away from thee what they say on their own judgment,' and another saying of his is the following: 'Opinion is carrion-when need requires, eat it; of 'ash-Shafi'i—to whom may God be merciful!—we are told that he said: 'Whatever I declare as a saying of the Prophet ..., or lay down as a principle, by the expression: "on the authority of the Messenger of God ...," at variance with something otherwise said by me, the true saying is that of the Prophet ..., which I hereby make my declaration, to the refutation of anything so said by me [to the contrary? — of which there are numerous interpretations, some applying it to all three divisions of tradition, to wit, the sound, the fair, and the weak, and some restricting it to the weak.

"Now to the first kind of tradition pertain the following:

[1.] "The sustained (المسند), namely, that of which the support is continuous, being at the same time carried back to the Messenger of God....

^{*&#}x27;Ash-Sha'bi died A.H. 96. He reported traditions on the wars of the Prophet.
"No man tells me a tradition without my remembering it," was another of his sayings. See Kitáb Tab., iii. 11.

- [2.] "The continuous (التصد), namely, that of which the support is continuous, whether it be carried back to the Prophet ... or stopped.
- [3.] "The carried back (الرفوي), or that which is attributed to the Prophet ..., as his in particular, of saying, or action, or confirmation, whether it be continuous or dissevered: so that continuous tradition may be either carried back or not carried back, and tradition which is carried back may be either continuous or not continuous; whereas sustained tradition is both continuous and carried back.
- [4.] "Tradition on authority (العنون), namely, that which is supported by the expression: 'Such a one says on the authority of such a one,' which may be correctly viewed as continuous, in case the two persons can have met, and provided there be no disguising, of which examples are to be found in the Sahih of 'al-Bukhâri as well as in that of Muslim. 'Ibn 'as-Ṣalāh says: 'In our time, and within a short period, there has been much use made of the expression "on the authority of," in the act of license; but, when one says: "Such a one says on the authority of a certain guarantee, on the authority of such a one," it is most likely that the tradition is dissevered, and that without being so much as a loosened tradition.'
- [5.] "The summarily given (below), namely, that from which one reporter, or more, of the support, has been cut off at the beginning—the term being derived from the closing up of a wall, or the despatch of a writing of divorce, a cutting short of connection being implied in those two actions. There may be a cutting off either [a] at the beginning of the support, in which case the tradition is summarily given, or [b] in the middle, which makes it dissevered, or [c] at the end, whereby it becomes loosened. 'Al-Bukhârî admits many traditions of this species into his Ṣaḥth, nor is any summary tradition, contained in that book, out of place, because either the reliable authorities depended upon in the summary statement of it have caused it to be recognized, or else it is mentioned by the author, in some other part of his book, as a continuous tradition.
- [6.] "Unique traditions(الأفراد). A tradition may be unique either as regards all reporters, or in a certain respect, as, for example, that the people of Makkah alone report it; unique tradition, therefore, is not weak, unless the term be used to signify that one single reporter gives it out.
- [7.] "The involved ([,,,]), consisting of the words of some reporter interwoven with a tradition, so that they are believed to form a part of it. It may also happen that two texts, having two supports, are woven together, as in the case of the report of Sa'îd Bin 'Abû-Miryam: 'Hate ye not one another, neither be envious one of another, nor turn the back upon one another, nor be rivals one of another,' where the words: 'nor be rivals one of another' are interwoven by 'Ibn 'Abû-Miryam from another text; or else a reporter may lay hold of some text, at the end of a tradition, together with some master's support which belongs to another text, and then report both texts on the authority of that master, with one support, the two supports being reduced to one; or else he may hear a single tradition from a number of persons, who differ in respect

either to its support or its text, and thereupon, by interweaving, make it appear that they all report harmoniously, not mentioning the disagreement—all which it is forbidden to do intentionally.

- [8.] "The notorious (المشجور), namely, that which is particularly wide spread among traditionists, because of its being transmitted by many reporters, such as, for example, the tradition that 'the Messenger of God... worshipped God for a month, in prayer at the head of a company;' or which is well known both among traditionists and others, as, for example, the tradition: 'Actions are not without intentions;' or which is known particularly among others than traditionists: says the eminent teacher 'Ahmad: 'That the Prophet said to an inquirer: "It is a duty, though one come mounted upon a horse,"* and: "The day of your slaying for saerifice is the day on which you are to fast," are traditions current in the market-place, though, when criticised, they are found to be without foundation.'
- [9.] "The unrelated and the rare (الغريب والعزيز). Unrelated tradition is said to be the tradition, for example, of 'az Zulırı, or of some such individual, being one whose aprightness and retentiveners suffice to secure a place for his tradition in collections. If a certain guarantee stands alone in giving a tradition, it is called unrelated; but if two or three, apart from others, report it, it is called rare; if reported by a number of persons, it is ealled notorious. Traditions unique as belonging to certain provinces are not unrelated. Unrelated tradition is either sound, like the unique traditions given out in 'al-Bukhan's Suhih, or not sound, the latter being most commonly the ease. Again, unrelated tradition is such in respect either to the support or the text, namely, that of which only one person reports the text, or in respect to support and not text, as, for example, any tradition of which the text is recognized on the authority of several of the Companions of the Prophet, in case it is reported, on the authority of some other witness of the Prophet, by one person alone, to which 'at-Tarmidhî refers in his expression: 'unrelated by this way of descent.' There is no such thing as a tradition unrelated in respect to text, without being so in respect to support, except when an [absolutely] unique tradition becomes notorious, so that many persons report it on the authority of him who alone vouches for it—whereby it is made a notorious unrelated tradition: as for the tradition: 'Actions are only according to intentions,' the first part of its support has the quality of being unrelated, while the last part of it is notorious.
- [10.] "The wrongly told (Lazzi), which may be such [a] in respect to the identity of a reporter, as, for example, a tradition of Shubah on the authority of 'al-'Auwam Bin Murajim—with ra' and jim—which Yahya Bin Ma'in tells wrongly, saying: 'Muzahim'—with zay and ha'; or [b] in respect to the identity of a tradition, as, for example, in the case of the saying of the Prophet . . . 'Whoever fasts in Ramadhan, and continues fasting for six days of the month Shauwal,' which some persons tell wrongly, using the expression 'for some days'—shai'an for sittan.

^{*} i. e., for all, high and low.

[11.] "The chain-wise (namely, that of which the guarantees who make up its support, even back to the Prophet ..., follow one another, in reporting it, on one and the same footing, whether this be a matter which [a] concerns the reporter himself, for example, the tradition being a saying: 'I heard such a one say: "I heard such a one say," and so on to the end, or: 'Such a one informs us, in the name of God, saving: "Such a one informs us, in the name of God," and so on to the end; or, the tradition being an action, like that in respect to folding the fingers together; * or, it being both a saving and an action. like the tradition: 'O God, it concerns me that I owe thee remembrance, and gratitude, and fair service,' which, as reported by 'Abû-Dawud, 'Ahmad and 'an-Nasa'i, runs thus, in the words of the reporter: 'The Messenger of God ... took me by the hand, and said: "Truly I love thee; so then do thou say: 'O God, it concerns me, etc.'"; or, the tradition being dependent upon a qualification, like the jurists' tradition, told by jurist from jurist: 'Two persons who have bargained together with reference to a sale, are at liberty in regard to it so long as they have not parted from each other; or whether it be a matter which [b] concerns the report, as in the ease of a tradition which is chain-wise by virtue of coincidence in name, or surname, or genealogy, or national appellative, between reporters and their predecessors: says the eminent teacher 'an-Nawawi: 'I also report three traditions which are chainwise through natives of Damascus.'

"Investigation of the state of a tradition, in order to ascertain whether its reporter stands alone with it or not, and whether it is recognized or

not, is called criticism (الاعتبار).

"To the second kind of tradition, distinguished as the weak, pertain the following:

[1.] "The stopped (ألوقوف), namely, in general, whatever is reported from a witness of the Prophet, being a tradition either of saying or action, whether continuous or dissevered. It is not legal proof, according to the soundest view. The term is also used in a restricted sense, with reference to others than a witness of the Prophet, as, for example, in the remark: 'It is stopped by Mn'ammar at Hammain,' and in the following: 'It is stopped by Malik at Nan'.' A declaration by a witness of the Prophet in the words: 'We were accustomed to do so and so in the time of the Prophet...' constitutes a tradition carried back, because the action, obviously, must have been noticed by the Prophet, and have received his confirmation; equally carried back, to all intents, is the tradition: 'His Companions were wont to knock upon his door with their nails.' Knranie exposition by a witness of the Prophet is stopped tradition; but any tradition of a witness which is of the nature of a reason for a particular revelation, as, for example, the saying of Jabir:

^{*} One of the chapters of the Book of Prayer in 'al-Bukhari's Sahih is entitled عبات تشبیک الاصابع فی المشجد رغیه i. c. Chapter on Folding the Fingers together in the Mosque and elsewhere. See MS., fol. 22, rect.

[†] This tradition makes the forty-third chapter of the Book of Sales in 'al-Bukharî's Sahih. See MS., fol. 86, rect.

'The Jews were wont to say so and so, whereupon the Glorious and Supreme God made a revelation so and so,' or the like, is carried back.

- [2.] "The mutilated (المقطوع), which is whatever has come down from followers of the Prophet in the second degree, of their sayings and doings, being stopped at them. It is not legal proof.
- [3.] "The loosened (الرسل), which consists in the saying by a follower of the Prophet in the second degree: 'The Messenger of God.... said so and so' (or, 'did so and so'). This, according to both practice and theory in jurisprudence, is recognized tradition, while at the same time there is some difference of opinion with regard to it, and 'ash-Shâfi'l makes it the subject of a distinction which is stated in the 'Uṣûl 'al-Fikh.
- [4.] "The dissevered (النقنع), namely, that of which the support is, anywise, not continuous, be it that a reporter is passed over either at the beginning of the support, or in the middle, or at the end of it; only that the term is commonly employed with reference to reporting on the authority of a witness of the Prophet, by one of a later age than a follower in the second degree, as, for example: 'Says Mâlik, on the authority of 'Umar.'
- [5.] "The straitened (العصل)—the participle being pronounced with fath on the dhâd—namely, that from the support of which two or more reporters have dropped out, as, for example, Mâlik's saying: 'Says the Messenger of God...,' and 'ash-Shâfi'î's saying: 'Says 'Ibn 'Umar so and so.'
- [6.] "The separate and the undetermined (الشاف والفناف). Says 'ash-Shāfi'i—to whom may God be merciful!—'Separate tradition is that which a reliable authority reports at variance with common report.' In the words of 'Ibn 'as-Salāḥ: 'There are several sorts of separate tradition: that from which varies some reporter who has better memory and more retentiveness than its single reporter, is rejected separate tradition; if no one of better memory differs from the single reporter, and the latter is upright and retentive, the tradition is sound; if he who reports the separate tradition is not retentive, yet not far from the rank of a retentive reporter, it is fair; if its reporter is far from being retentive, it is undetermined.' The discrimination of the words: 'some reporter who has better memory and more retentiveness' denotes that a tradition differed from is not rejected when equal as respects the grade of its reporter to that which differs from it. What undetermined tradition is, may be seen from the classification just quoted.
- [7.] "The specious (July), namely, that involving certain hidden, subtle assumptions, to its injury, which are evidently unauthorized. Such assumptions are discovered by the circumstance that a tradition has only one reporter, or is differed from, in connection with certain other things by which an intelligent person is put upon his guard against either a loosening in tradition which is [apparently] unbroken, or a stoppage in that which is [seemingly] carried back to the Prophet, or a confounding of one tradition with another, or an error on the part of some person deficient in accuracy—so that he is constrained not to think the tradition to be what it seems, and judges accordingly, or is embarrassed and

made undecided, inasmuch as all the circumstances referred to hinder the pronouncing of a tradition to be sound. The tradition of Ya'la Bin 'Ubaid, on the authority of 'ath-Thaurî, on the authority of 'Amrû Bin Dînâr, on the authority of 'Ibn 'Umar, on the authority of the Prophet ... 'The seller and buyer are at liberty,' is supported continuously by the authority of an upright and retentive reporter, and the text is sound, while at the same time it is a specious tradition: for 'Amrû Bin Dînâr has been put in the place of his brother 'Abdallah Bin Dinar-it is thus that the emiuent teachers among the followers of 'ath-Thanrî report it from him-so that Ya'la has fallen into an error. The term 'pretence' is, indeed, applied, in the general sense [of something unreliable], to falseness, earelessness, defect of memory, and the like; and some persons even use it to signify what it has no applicability to, and is not injurious to the soundness of a tradition, as, for example, the loosening of some tradition which virtually reaches to the Prophet by the report of a retentive, reliable authority, so that they go so far as to say: 'one department of sound tradition is the specious sound,' just as another says: one department of sound tradition is the separate sound,' including under this latter appellation the tradition of Ya'la Bin 'Ubaid: 'The seller and buyer are at liberty.'

[8.] "The disguised (المناس), of which the defect lies hidden, either [a] in the making up of its support, namely, that one reports on the authority of a person whom he had met, or whose contemporary he was, without having received instruction in tradition from him, in such a way as to lead to the supposition that he was instructed by him (for he ought not to say: 'Such a one tells us for a tradition,' but, instead of this: 'Such a one says,' or 'Such a one is responsible for the following,' or the like); and often it is not his master whom the disguiser drops out, but some weak guarantee, or one of immature age farther on in the ehain of connection, thereby giving a fair appearance to the tradition, as did, for example, 'al-'A'mash, 'ath-Thauri, and others-both which ways of reporting offend very much the sense of propriety, and arc condemned by most of the doctors: there is, however, a difference of opinion with regard to the reception of a disguised report of tradition; and it is most correct to draw a distinction, that which is reported in language capable of being understood not to express an actual hearing of it being judged of in the same manner as tradition which is loosened. or of that sort, * while that which is reported in language clearly expressive of continuousness, as, for example: 'I have heard,' or 'Such a one informs us,' or 'Such a one tells us for a tradition,' or the like, is used as legal proof; or [b] in the designation of actual masters, namely, that one reports, on the authority of some master, a tradition which he did indeed hear from him, but gives him a name, or a surname, or a genealogy, or an appellative, by which he is not known, in order that he may not be recognized: to do this is a very light matter, and vet such a proceeding renders worthless whatever is reported on the authority of the person so disguised, causing difficulty, as it does, in the way of knowing his eircumstances, and is more or less displeasing according to the mo-

^{*} viz., by the character of the reporter.

tive which impels to it, be this either that reports on the authority of the disguised person abound (for it is not agreeable to multiply traditions from a single individual, in one and the same form), or that one is impelled to the disguise by the fact that his master, whose designation he alters, was not a reliable authority, or was younger than himself, or by some such consideration.

[9.] "The unstable (أخطرب), namely, that of which the report varies, without any preponderance in authority of one report over another, such as that the reporter of one had better memory, or more followers in respect to reporting tradition on his authority, than another, leading to a decision in favor of that which has the greater weight: in case a decision between differing reports is practicable, the tradition is not unstable; but instability arises where there is no preponderance.

[10.] "The reversed (المخاوب), namely, for example, a tradition, notorious on the authority of Sâlim, which is put down as authorized by Nâfi', in order that it may, for one's pleasure, become an unrelated tradition. The tradition about 'al-Bukhârî, when he came to Baghdâd, and the masters put him to trial by reversing supports, is well-known.*

(الموضوع), whether it (الموضوع), namely, hearsay must be regarded as true, having been shown by eminent teachers to be correct, or whether it must be pronounced false, such teachers having shown it to be fictitious, or whether it be doubtful, on account of the possibility of either truth or falsehood in the case, like other rumors. Suppositious tradition must not be reported by one who is aware of its character, let it signify what it may, unless accompanied with a declaration of its suppositiousness. It may be known either by confession on the part of him who made it up, or by the want of sense in its phraseology, or by the discovery of some such error in it as that which Thabit 'Ibn Mûsa 'az-Zâhid fell into respecting the tradition: 'Whoever prays much at night has a fair countenance by day: a certain master, it is said, was giving out tradition in the midst of an assembly of people, when a man of fair countenance entered; whereupon the master said, on repeating his tradition: 'Whoever prays much, etc.,' which led Thâbit to think that these words were a part of the tradition, and he report-Suppositious tradition may originate with several sorts ed accordingly. of persons, most of whom make it up at some risk, like 'az-Zâhid, and therefore blameably. Entire traditions of a suppositious character were made up by the Zanadikah, whose bad warcs, and the disgrace of whose conduct, have been in later times successfully exposed by men skilled in the science, and brought to nought—to God be the praise! The Karràmiyah, and the 'Innovating Sect,' considered it lawful to make up tradition with regard to religious contemplation and the monastic life. This species of tradition is referred to in a report on the authority of 'Abû-'Uşmah Nûh 'Ibn Miryam, namely, that he was asked: 'How is it that thou hast traditions on the authority of 'Ikrimah, on the authority of 'Ibn 'Abbas, respecting the virtues of the Kuran, chapter by

^{*} See Zeitschrift d. D. M. Gesellschaft, iv. 6.

A sect of dualists.

[‡] A sect of anthropomorphists.

chapter?' to which he replied: 'I saw that men were diverted from the Kuran, and busied themselves with the Fikh of 'Abu-Hanifah, and the Maghazi of Muhammad Bin Ishak, and so I made up these traditions as a substitute: now commentators on the Kuran, not prevented by the grace of God, have committed the error of bringing forward such traditions in their commentaries; and among others which they cite is the following, that the Prophet... when he had read the words: "and Manah the third, the other,"* added: "As for those tender girls, there is no hope of their intereession," which we have enlarged upon, by way of refuting it, under the chapter headed "It is worship of God to read the Kuran:" accordingly, whatever they who treat of the principles of Islâm allege as having been said by the Prophet, in case I am referred to as authority for any tradition, confront it with the Book of God, and, if it agrees therewith, accept it; otherwise, reject it.'. 'Al-Khattabî says: 'The Zanadikah made up tradition, notwithstanding the discountenance of that saying of the Prophet . . . "The Book, and that which is equivalent thereto" (or, as it is also reported, "and the like of it together with it"), was brought to me by divine inspiration."' Ibn 'aj-Jauzî eomposed volumes relative to suppositious traditions, wherein, as 'Ibn 'as-Salah says, he brings forward many simply weak traditions, not proved to have been made up, for which the proper place would be among weak traditions. There is also a work by the master 'al-Hasan Bin Muhammad 'as-Saghghan', entitled The Choice Pearl on the Detection of i'.(الدر الملتقط في تبيين الغلط) Error

On comparing these definitions given of the several kinds and species of tradition by 'Abd 'al-Hakk and 'aj-Jurjanî, we find no radical disagreement between the two writers, notwithstanding the four centuries and a half which separated them from each other, but only some differences of form which seem not to require any comment. We may, therefore, proceed at once to another extract, which will be from Muslim's introduction to his Sahîh. We have not met with any classification of traditions by this author; but in the following passage he throws some additional light upon the received system of tradition, by a discussion of what constitutes soundness of report, arguing against a certain condition which some held to be essential to it. It may be well to remind the reader that Muslim lived about five centuries and a half before the earliest of the authorities last quoted from.§

^{*} See Kur., liii. 20.

[‡] See Haji Khalf. Lex., iii. 191.

[†] Died A. H. 597. § This passage is quoted from pp. 20-27.

باب ما تصحّ به رواية الرواة بعضهم عن بعض والتنبية على من غلط في ذلك

وقد تكلمر بعص مناحلي الحديث من اعل عصرنا في تصحيح الاسانيد وسقيمها بقول لو اضربنا عن حكايته وذكر فساده صفحا لكان رأيا متينا ومذهبا محجا اذ الاعراض عن القول المطرِّح اخرى لامانته واخمال ذكر قايله واجدر أن لا يكون ذلك تنبيها للجهال عليه غير أنّا لما تخوفنا من شرور العواقب واغترار الجهلة بمحدثات الامور واسراعهم الي اعتقاد خطاء المخطبين والاقوال الساقطة عند العلماء رأينا اللشف عن فساد قوله ورد مقالته بقدر ما يليق بها من الردّ اجرى عن الانام واحمد للعاقبة أن شاء الله عزّ وجلّ وزعم القايّل الذي افتتحنا اللام على الحكاية عن قوله والاخبار عن سوء رويَّنه أن كل أسناد لحديث فيه فلان عن فلان وقد احاط العلم بانهما قد كانا في عصر واحد وجايز ان يكون الحديث الذي روى الراوي عمن روى عنه قد سمعه منه وشافهه به غير انه لا يعلم له منه سماعا والر نجد في شيّ من الروايات انهما التقيا قطّ او تشافها بحديث ان الحجة لا تقوم عنده بكل خبر جاء هذا المجيئي حتى يكون عنده العلم بانهما قد اجتمعا من دهرا مرة فصاعد او تشافها بالحديث بينهما او يرد خبر فيه بيان اجتماعهما او تلاقيهما مرّة من دعرعما فا فوقها فأن لم يكن عنده علم فلك ولم يأت رواينة تخبر ان عذا الراوى عن صاحبه قد لقيه مرة وسمع منه شيأ لم يكن في نقله الخبر عمن روى عنه علم ذلك والامر كما وصفنا حجة وكان الخبر عنده موقوفا حتى يرد عليه سماعه منه لشيٍّ من الحديث قلَّ أو كثر في رواية مثل ما ورد وهذا القول يرحمك الله في الطعم، في الاسانيد قول تخترع مستحدث غير مسبوق صاحبه اليه ولا مساعد له من اهل العلم عليه وذلك أن القول الشايع المتفق عليه بين أكل العلم بالاخبار والروايات قديما وحديثا أن كل رجل ثقة روى عن مثله حديثا وجايَّز مُكن له لقاوه والسماع منه لكونهما جميعا كانا في عصر واحد وان لريأت في خبر قطّ أنهما أجتمعا ولا تشافها بكلام فالرواية ثابتة وأحجة بها لازمة الا أن يكون هناک دلالة بیّنة ان هذا الراوی لر بلق من ردی عنه او لر یسع منه شیأ

فاما والامر مبهم على الامكان الذي فسرنا فالرواية على السماع ابدا حنى تكون الدلانة التي بينا فيقال لمخترع هذا القول الذي وصفنا مقالته او للذابّ عنه قد اعطيت في جملة قولك أن خبر الواحد الثقة عن الواحد الثقة حجة يلزم به العهل ثمر ادخلت فيه الشرط بعد فقلت حتى يعلم انهما قد كانا التقيا مرَّة فصاعد أو سمع منه شيأً فهل تجد هذا الشرط الذي اشترطته عن احد يازم قوله والا فهلم دليلا على ما زعمت فان ادعى قول احد من علماء السلف بما زعم من ادخال الشريطة في تثبيت الخبر طولب به ولن يجد هو ولا غيره الى ايجاده سبيلا وان هو ادعى فيما زعمر دليلا يحتم به قيل له وما ذاك الدليل فان قال قلته لاني وجدت رواة الاخبار قديما وحديثا يروى احدهم عن الاخر الحديث ولما يعاينه ولا سمع منه شيأً قطِّ فلما رأيتهم استجازوا رواية الحديث بينهم فكذا على الارسال من غير سماع والمرسل من الروايات في اصل قولنا وقول اهل العلم بالاخمار ليس جحجة احتجت لما وصفت من العلَّة الى الجن عن سماع الراوى كلَّ خبر عن راويه فاذا انا هجمت على سماعه منه لادنى شيئي ثبت عندى بذلك جميع ما يروى عنه بعد فان عزب على معرفة ذلك اوقفت الحبر ولم يكن عندى موضع حجة لامكان الارسال فيه فيقال له فان كانت العلَّة في تضعيفك لأخبر وتركك الاحتجاج به امكان الارسال فيه لزمك ان لا تثبت اسنادا معنعنا حتى ترى فيه السماع من اوله الى اخره وذلك ان الحديث الوارد علينا باسناد هشام بن عروة عن ابيه عن عايشة رضى الله عنها فبيقين نعلم ان هشاما قد سمع من ابيه وان اباه قد سمع من عايشة رضى الله عنها كما نعلم ان عايشة قد سمعت من الذي صلى الله عليه وسلم وقد يجوز اذا لمر يقل هشام في رواية يرويها عن ايبه سمعت او اخبرني ان يكون بينه وبين ابيه في تلك الرواية أنسان اخر اخبره بها عن ابيه ولم يسمعها هو من ابيه لما احبّ أن يرويها مرسلا ولا يسندها الى من سمعها منه وكما يمكن ذنك في هشام عن ابيه فهو ايضا مكن في ابيه عن عايَّشة رضى الله عنها وكذالك كل اسناد لحديث ليس فيه ذكر سماع بعضهم من بعص وان كان قد عرف في الجلة أن كل واحد منهم قد سمع من صاحبه سماء كثيرا نجائيز لكلّ واحد

منهم أن ينزل في بعض الرواية فيسمع من غيره عنه بعض أحاديثه ثر يرسله عنه احيانا ولا يسمى من سمع منه وينشط احيانا فيسمى الرجل الذي حمل عنه الحديث ويترك الارسال وما قلنا من هذا موجود في الحديث مستفيض من فعل ثقات الحدثين وايمة اعل العلم وسنذكر من رواياتهم على الجهة التي فكرنا عددا يستدلُّ بها على اكثر منها أن شاء الله تعالى فمن نالك أن ايوب السختياني وابن المبارك ووكيعا وابن نمير وجماعة غيرهم رووا عن هشام ابن عروة عن ابيه عن عايشة رضى الله عنها كنت اطيب رسول الله صلى الله عليه وسلم لحلَّه ولحرمه باطيب ما اجد فروى عنه الرواية بعينها الليث ابي سعد ودارُّود العطار وحميد بي الاسود ووفيب بي خالد وابو اسامة عن هشام قل اخبرني عثمان بن عروة عن عروة عن عأيشة رضى الله عنها عن النبى صلى الله عليه وسلم وروى هشام عن ابيه عن عايشة رضى الله عنها كان الذي صلى الله عليه وسلم اذا اعتكف يدني التي راسه فارجله وانا حايض فرواها بعينها مالك بن انس عن الزعرى عن عروة عن عمرة عن عابيشة رضى الله عنها عن النبي صلى الله عليه وسلم وروى الزهري وصالح ابب ابي حسان عن ابي سلمة عن عايشة رضى الله عنها كان النبي صلى الله عليه وسلم يقبّل وعو صايّم فقال يحيى بن ابي كثير في عذا الخبر في القبلة احبرني ابو سلمة بن عبد الرحمن أن عمر أبن عبد العزيز أخبره أن عروة اخبره ان عايشة رضى الله عنها اخبرته ان النبي صلى الله عليه وسلم كان يقبّلها وهو صايّم وروى ابن عيينة وغيره عن عمرو بن دينار عن جابر رضى الله عنه قال اطعمنا رسول الله صلى الله عليه وسلم لحوم الخيل ونهانا عبى لحوم الحمر الاهلية فرواة حماد بن زيد عن عمرو وعن محمد بن على عن جابر رضى الله عنه عن النبي صلى الله عليه وسلم وهذا النحوفي الروايات كثير يكثر تعداده وفيما ذكرنا منها كفاية لذوى الفهم فاذا كانت العلَّة عند من وصفنا قوله قبل في فساد الحديث وتوهينه اذا لم يعلم ان الراوى قد سمع عن روى عنه شيأ لمكان الارسال فيه لزمه ترك الاحتجاج في قياد قولة برواية من يعلم انه قد سمع عن قد روى عنه الا في نفس الخبر الذي فيه ذكر السماع لما بينًا من قبل عن الايمة الذين نقلوا الاخبار الله

كانت لهم تأرات يرسلون فيها الحديث ارسالا ولا يذكرون من سمعوه منه وتارات ينشطون فيها فيسندون الخبر على عيية ما سمعوا فيخبرون بالنزول فيه أن نذلوا وبالصعود أن صعدوا كما شرحنا ذلك عنهم وما علمنا احدا من ايمة السلف عن يستعبل الاخبار ويتفقد محة الاسانيد وسقمها مثل ايوب السختياني وابن عون ومالك بن انس وشعبة بن الحجاج ويحى بن سعيد انقطان وعبد الرحمن ابن مهدى ومن بعدهم من اهل الحديث فتّشوا عن موضع السماع في الاسانيد كما ادّعاه الذي وصفنا قولة من قبل وأنما كان تفقد من تفقد منهم سماع روأة الحديث من روى عنهم اذا كان الرارى من عرف بالتدليس في الحديث وشهر به فحينيَّذ يجتون عن سماعه في روايته ويتفقدون ذلك منه كي تنزاح عنهم علَّة التدليس فأما ابتغاء ذلك من غير مدلس على الوجه الذي زعمر من حكينا قوله فا سمعنا ذلك عن سمّينا وفر تسمّر من الايمة فن ذلك أن عبد الله بن يزيد الانصاري وقد رأى النبي صلى الله عليه وسلم قد روى عن حذيفة وعن ابي مسعود الانصارى وعن كل واحد منهما حديثا يسنده انى النبي صلى الله عليد وسلم وليس في روايته عنهما ذكر السماع منهما ولا حفظنا في شي من الروايات أن عبد الله ابن يزيد شافه حذيفة وابا مسعود رضى الله عنهما بحديث اقطَّ ولا وجدنا ذكر رويتة ايا^با في رواية بعينها ولم يسع عن احد من اهل انعلم عن مصى ولا عن ادركنا انه طعى في عذين الخبرين اللذين رواها عبد الله ابن يزيد عن حذيفة وابي مسعود بضعف فيهما بل هما وما اشبههما عند من لاقينا من اهل العلمر بالحديث من محاج الاسانيد وقونها يرون استعمال ما نقل بها والاحتجام بما اتت من سنن واثار وهي في زعم من حكينا قوله من قبل واعية مهملة حنى نصيب سماع الراوي عمن ردى ولو ذهبنا نعدد الاخبار الصحام عند اهل العلم عن يهن بزعم هذا القايل وتخصيبا لاجزنا عن تقضى درها واحصابها كلها ولكنا احببنا ان ننصب منها عددا يكون سمة نن سكتنا عنه منها وهذا أبو عثمان النهدى وابو رافع الصابّع وها من أدرك الجاعلية وسحبا المحاب رسول الله صلى الله عليه وسلم من البدريين علم جرًا ونقلا عنهم الاخبار حتى نزلا الى مثل

ابی عربرة وابن عمر ودویهما قد اسند كل واحد منهما عن ابی بن كعب رضى الله عنه عن النبي صلى الله عليه وسلم حديثًا ولم يسمع في رواية بعينها انهما عاينا ابيا او سمعا منه شيأ واسند ابو عمرو الشيباني وهو من ادرك الجاهلية وكان في زمن الذي صلى الله عليه وسلم رجلا وابو معر عبد الله بن سنحبرة كل واحد منهما عن ابي مسعود الانصاري عن النبي صلى الله عليه وسلم خبرين واسند عبيد بن عمير عن ام سلمة زوج النبي صلى الله عليه وسلم عن النبي صلى الله عليه وسلم حديثا وعبيد ولد في زمن النبى صلى الله عليه وسلم واسند قيس بن ابى حازم وقد ادرك زمن النبى صلى الله عليه وسلم عن ابى مسعود الانصارى عن النبى صلى الله عليه وسلم ثلثة اخبار واسند عبد الرحمي بن ابي ليلي وقد حفظ عن عمر بن الخطاب وسحب عليا رضى الله عنهما عن انس بن مالك عن الذي صلى الله عليه وسلم حديثا واسند ربعي بن حراش عن عمران بن حصين عن النبي صلى الله عليه وسلم حديثين وعن ابي بكرة عن النبي صلى الله عليه وسلم حديثا وقد سع ربعي من على بن ابى طالب رضى الله عنه وروى عند واسند نافع ابن جبير بن مطعمر عن ابي شريع الخزاعي عن النبي صلى الله عليه وسلم حديثا واسند النعان بن ابي عياش عن ابي سعيد الخدري رضى الله عنه ثلاثة احاديث عن النبي صلى الله عليه وسلم واسند عطاء ابن يزيد الديثي عن تيم الداري عن النبي صلى الله عليه وسلم حديثا واسند سليمان بن يسار عن رافع ابن خديج عن النبي صلى الله عليه وسلم حديثا واسند حميد بن عبد الرحمن الحميري عن ابى هريرة عن النبى صلى الله عليه وسلمر احاديث فكل هولاء التابعين الذيبي نصبنا روايتهم عن الصحابة الذين سميناهم لر جفظ عنهم سماع علمناه منهم في رواية بعينها ولا انهم لقوم في نغس خبر بعينه وفي اسانيد عند ذوى المعرفة بالاخبار والروايات من محاج الاسانيد لا نعلمهم وقنوا منها شيأ قط ولا التمسوا فيها سماع بعضهم من بعض اذا السماع لكل واحد منهم مكن من صاحبه غير مستنكر لكونهم جميعا كانوا في العصر الذي اتفقوا فيه وكان هذا القول الذي احدثه القايل الذي حكيناه في توهين الحديث بالعلّة التى رصف اقلّ من ان يعرّج عليه ويثار ذكره اذ كان قولا محدثا وكلاما خلفا فر يقله احد من اهل العلم سلف ويستنكره من بعدهم خلف فلا حاجة بنا فى ردّه باكثر ما شرحنا اذ كان قدر المقالة وقايلها القدر الذى وصفناه والله المستعان على دفع ما خالف مذهب العلماء وعليه التكلان

"Chapter on what constitutes Soundness in the Report of one Reporter on the Authority of Another, with Warning against such as have erred on the subject.

"One of our contemporaries, professing a knowledge of tradition, has argued respecting what constitutes sound and unsound reports, in language which it would be well judged, and perfectly reasonable, to avoid speaking of, and the viciousness of which might well be left unnoticed, since to disregard the language thus obtruded upon us would be another mode of getting rid of it, and of obscuring the remembrance of its author, beside that it were more suitable not to warn the ignorant against what they know nothing of, by calling attention to it. Yet, because we fear bad consequences, in the end, and that the ignorant may be deceived by certain novel injunctions, and may be induced to put confidence in the false views of errorists, and in sayings not maintained among the doctors, we have thought fit to expose the viciousness of our contemporary's language, and to refute his notion by a sufficiency of argument against it. This I propose to do, with no reliance upon man. Praise be to God for my success, if He, the Great and Glorious, wills it.

"The person whose language we design to speak of, and whose inconsidcrateness we intend to set forth in the remarks which we have begun, imagines that, in the case of every support of a tradition in which occurs the expression '... such a one, on the authority of such a one,' the two are known to have been of one and the same generation; whereas it is admissible that a tradition reported on the authority of any one was heard by the reporter from him, and was uttered to the reporter by him, though it be not known for certain that the one received tradition orally from the other, and though we find it not stated, in any report whatever, that the two ever met, or spoke tradition one to the other. his opinion, no traditional statement (خبر) which has come down in the form referred to avails for the establishment of law, until one absolutely knows that the two reporters were together once or oftener in their life time, or communicated tradition orally one to the other, or until one gets hold of some traditional statement which distinctly recognizes that the two were together, or met, once, at least, in their life-time; so that, if one possesses no positive knowledge of the fact, and no report reaches him which implies that he who thus reports 'on the authority of' his alleged master did actually once meet him, and hear some tradition from him, the statement, as transmitted by such reporter, wants that authority in its favor which is constituted by a person, reported from, of whom such knowledge exists: whereas a tradition of the sort here described is legal proof. Moreover, in his opinion, a traditional statement in the form referred to is stopped (موقوف), until, by some report which is like to that in question, one learns of the reporter's having heard more or less of tradition from him on whose anthority he reports.

"Now, this language-may God mercifully preserve thee from defaming the supports of tradition !- is strange, innovating, without ground in the views of any earlier author, and not favored by any other traditionist: that is to say, the language universally accepted and current among those conversant with traditional statements and reports, both in ancient and modern times, is this, that every supporter of tradition, being a reliable authority, reports on the anthority of his like, and that his having met the latter, and having received oral instruction in tradition from him, consequently upon the contemporaneousness of the two, is a thing to be admitted, which may or may not have been a fact, although one never gets hold of a traditional statement that the two were at any time together, or ever made any oral communication one to the other. report is, therefore, established, and the legal proof which it involves is binding, unless it he clearly shown that the reporter, in a particular case of report 'on the authority of' another, did not meet him whose authority he alleges, or did not receive any oral instruction in tradition from him; so that, however uncertain the fact may be, on account of that possibility either way which we have set forth, vet the report forever rests on the basis of oral communication, until one has the

demonstration to the contrary just spoken of.

"We say, then, in reply to him who has set on foot this talk of which we have presented the substance, or rather to put a stop to it: in all that thou sayest, thou grantest that the traditional statement of one reporter who is reliable, 'on the authority of' a reliable reporter, constitutes legal proof, and obligates conduct; and then thou bringest in a condition, and sayest 'so long as it is known that the two had met once or oftener, or that the one had received some oral instruction in tradition from the other;' but how dost thou ascertain this that thou conditionest to be a fact, on the authority of one whose word is binding? and if such ascertainment is wanting, what becomes of all evidence in favor of the notion thon hast taken up? Should he pretend that even a single one of the primitive doctors expressed himself in favor of his notion as to making a certain condition essential to the confirmation of that form of traditional statement which is in question, most certainly neither he nor any one else will be able to produce such an expression. But if he pretends that there is any argumentative proof of the correctness of his opinion, we reply to him by inquiring what that proof is. Should he say: 'I adopt this language because I have found reporters of traditional statements, both ancient and modern, reporting tradition one from another, in spite of the fact that the reporter had not seen him on whose authority he reports, and had not heard any tradition from him. For, after I saw that reporters allowed themselves to report tradition in such a loose manner (على الأرسال), without any oral communication-loose report, according to fundamental principles which we maintain in common with all who are conversant with traditional statements, not being legal proof -I felt it to be necessary, for the reason indicated, to investigate respecting the fact of a reporter's having heard whatever traditional statement he gives 'on the authority of' another. So, now, having ascertained that the former did receive the least oral instruction in tradition from the latter, I become satisfied of the validity of all that he reports on the latter's authority; but, if the knowledge of that fact sails me, I regard his statement as stopped (رقفت الخرب), and the possibility of its being a loose report is, in my opinion, a reason for rejecting it as a vehicle of

legal proof'—should he say this, we reply as follows:

"If thou regardest a traditional statement as weak, and dost renounce making out legal proof by means of it, on account of the possibility of looseness in it, thou art necessitated not to consider a support 'on authority' (اسناد معنعر) as stable until thou seest that oral eommunication extends from the beginning to the end of it. That is to say, in the case of a tradition which comes to us with the support of '... Hisham Bin 'Urwah, on the authority of his father, on the authority of 'A'ishah' —to whom may God be gracions!—we are assured that Hisham heard tradition from his father, and that his father heard from 'A'ishah-to whom may God be gracious!—as we are assured that 'A'ishah heard tradition from the Prophet ...; and yet, since Hisham does not say, in any report which he gives on his father's anthority: 'I heard ...', or '... told me,' it is possible that, in the report just referred to as an example, there belongs between him and his father some other guarantee, by whom he was told it on his father's anthority, and that he himself did not hear it from his father (he having chosen to give the report loosely, without referring it to him from whom he heard it); and, as that possibility exists in respect to Hisham's reporting 'on the authority of' his father, so again it exists in respect to his father's reporting 'on the authority' of 'A'ishah-to whom may God be gracious! So must it be, also, with every support to a tradition in which there is no mention made of the reporters having heard it one from another; and, even if it be known, in general, that each one received much oral instruction in tradition from the person whose authority he alleges, still it may be true of each that, in some of his reporting, he even narrates on the ascending grade [by without other hearing of the particular tradition than, on the anthority of him whom he names, from another; and moreover it may be that he sometimes gave out tradition loosely, 'on the authority of' some individual mentioned, without naming him from whom he really heard it, and sometimes, to avoid looseness, was eareful to name the guarantee from whom he actually took it up. Indeed, what we have here suggested is a fact as regards tradition, and has been notoriously practised by reliable traditionists and eminent teachers of the science. We will mention a number of instances of their reporting in the mode referred to—if it be the will of the Supreme God—to serve as examples. One of these is a report of 'as-Sikhtiyani, * 'Ibn 'al-Mubarak, †

^{*} A traditionist of the city of Jurjan, near the southern end of the Caspian Seawho died A. H. 305. Sec Kitáb Tab., x. 104.

[†] One of the most critical traditionists of his time: he died A.H. 181. See Kitab Tab., vi. 30.

Wakî', 'Ibn Namîr,* and several others, on the authority of Hishâm 'Ibn 'Urwah, 'on the authority of' his father, on the authority of 'A'ishahto whom may God be graeious!-namely: 'I was in the habit of perfuming the Messenger of God . . . as well on common as on sacred days, with the most fragrant perfume I could find,' a report which is identically given out by 'al-Laith 'Ibn Sa'd, Dâ'ûd 'al-'Attâr, Humaid Bin 'al-'Aswad, Wuhaib Bin Khâlid, and 'Abu-'Usamah, t on the authority of Hisham, as having said that he was told it by 'Uthman Bin' Urwah, on the authority of 'Urwah, on the authority of 'A'ishah—to whom may God be gracious! -on the authority of the Prophet ... Another report by Hishain, 'on the authority of 'his father, on the authority of 'A'ishah—to whom may God be gracious !- is as follows: 'The Prophet ... in the act of devotion was wont to lean his head towards me, for me to comb it, while I was in my monthly state,' which Malik Bin 'Anas reports, identically, on the authority of 'az-Zuhrî, on the authority of 'Urwah, on the authority of 'Amrah, on the authority of 'A'ishah-to whom may God be gracious! —on the authority of the Prophet... Again, it is reported by 'az-Zuhri and Silih Ibn Abû-Hassan, on the authority of Abû-Salamah, 'on the authority' of 'A'ishah ... that 'the Prophet ... was accustomed to kiss while performing fast,' a traditional statement which Yahya Bin 'Abû-Kathîr § gives on the subject of kissing, as follows: 'Abû-Salamah Bin 'Abd 'ar-Rahman told me, that he was told by 'Umar 'Ibn 'Abd 'al-'Azîz, that 'Urwalı told him, that he was told by 'Â'ishah ... that the Prophet ... was wont to kiss her while performing fast.' Again, it is reported by Ibn 'Uyainah | and others, 'on the authority of' 'Ann' Bin Dînâr, on the authority of Jâbir--to whom may God be gracious!--saying: 'The Prophet ... gave us horseflesh for food, and forbade us to eat the flesh of tame asses,' which Hammad Bin Zaid reports on the authority of 'Amru and of Muhammad Bin 'Ali, on the authority of Jabir ... on the authority of the Prophet ... There are many other such reports, which it would take long to enumerate; those here mentioned are sufficient for the intelligent. Now, inasunuch as he whose language we have previously set forth, to the effect that a tradition is corrupt and weak in case it be not known for certain that the reporter heard any tradition from him on whose authority he reports, pretends that, on account of the possibility of looseness in a tradition, one is bound to make no use for legal argumentation of the report of a person of whom we are assured that he heard tradition from him on whose authority he reports. unless this assurance is conveyed in some traditional statement which itself expresses the fact of oral communication by one to the other—it appears from what we have shown of the practice of eminent teachers who have handed down traditional statements, that they sometimes give out a tradition loosely, without mentioning from whom they heard it, and

TA traditionist of Basrah, who died A. H. 179. See Kitáb Tab., v. 55.

^{*} Of Küfah. 'Al-Bukh'ırî, Muslim, 'Ibn Dâwud, 'Ibn Mâjah and others, are said to have received traditions on his authority. He died A.H. 234. See Kitáb Tab., viii, 26. † A teacher of 'Ibn 'al-Mubarak in tradition, whose home was Egypt. He died A.H. 175. See Kitáb Tab., v. 52. † Of Kufah: he died A.H. 201. See Kitáb Tab., vi. 71.

[§] Died A. H. 129. See Kitáb Tab., iv. 20. Of Kufah, a very exact teacher of tradition, who died A. H. 198. See Kitab Tab . vi. 19.

sometimes are careful to support the statement in the form of something which they heard, narrating on the ascending grade, if they proceed upwards, and on the descending grade, if they proceed downwards, as we have made it plain that they did.* Moreover, we know of no eminent teacher of primitive times, accustomed to employ traditional statements. and to scrutinize supports with reference to their soundness or unsoundness, conal to 'as-Sikhtiyani, 'Ibn 'Aun, Malik Bin 'Anas, Shu'bah Bin 'al-Hajjâj, Yahya Bin Sa'id 'al-Kattân, f and 'Abd 'ar-Rahmân 'Ibn Mahdi. 8 and the succeeding traditionists who have investigated the matter of the explicit mention of oral communication in the supports of tradition, contended for by him whose language we have set torth; and no one of these was ever wont to inquire whether the reporters of tradition did in fact receive oral instruction from those on whose authority they report, except when a reporter was known to disguise tradition (بالتدليس), and noted for doing so. In that case, indeed, the inquiry was instituted whether the individual did report as he had heard, and careful consideration was given to this question, in order to avoid all complicity with disguising. But as to looking into the matter irrespectively of disguised tradition, in the way approved of by him whose language we have stated, we hear of no such thing being practised by those whom we have named, or by any other eminent teacher. 'Abdallah Bin Yazid 'al-'Ansari, who saw the Prophet ..., for instance, reports 'on the authority of' Hudhaifah and of 'Abû-Mas'ûd 'al-'Anşârî, and 'on the authority of' each one of the two, a tradition which he refers to the Prophet although, in reporting it on their authority, he makes no mention of having heard it from them, and we do not remember any report which makes it appear that 'Abdallah 'Ibn Yazid ever recited tradition as a pupil of Hudhaifah or of 'Abû-Mas'ûd-to both of whom may God be gracious!-nor have we found it explicitly mentioned, in any report, that he ever saw those two persons. No traditionist, either of past time or among ourselves, was ever heard to object to the two traditional statements just referred to, reported by 'Abdallah 'Ibn Yazid, on the anthority of Hudhaifah and of 'Abû-Mas'ùd, as inherently weak; on the contrary, all persons conversant with tradition, whom we have met, regard these and whatever are like them as being sound and strong in their supports, and approve of using the information thereby transmitted, and of alleging as legal proof the rules (سنن) and reminiscences (انار) which they convey to us: and yet he whose language we have set forth imagines such statements to be wanting in solidity and precision, until we find out by investigation that the reporter did hear tradition from him on whose authority he reports.

"Were we to proceed to enumerate distinctly all the traditional statements, sound in the opinion of traditionists, which have come down to

^{*} For explanation of the terms "ascending grade" and "descending grade," see p. 79.

[†] Of Basrali : he died A. H. 151. Sec Kitáb Tab., iv. 55.

[†] This person is said to have been the leader of the people of 'Irak in the science of tradition, and to have been deep in criticism respecting reliable authorities. He died A. H. 198. See Kitáb Tab., vi. 49.

[§] A traditionist of Basrah, who died A. H. 198. See Kitab Tab., vii. 1.

us from those whom our author regards as feeble authorities, we should fail to accomplish the undertaking; but we have thought proper to eall attention to a number of them, which may serve as a specimen for him whom we herewith make an end of replying to. For instance, 'Abû-'Uthmân 'an Nahdî aud 'Abû-Râfî' 'aş Şâ'igh, who both lived in the days of ignorance, and also had intercourse with the Companions of the Messenger of God . . . who fought at Badr, and so on, and both of whom transmitted traditional statements on their authority, even to citing traditions told by men like 'Abû-Hurairah, 'Ibn 'Umar, and their friends, give ont, each of them, a tradition as sustained 'on the anthority of' 'Ubaiv Bin Ka'b-to whom may God be gracions!-on the authority of the Prophet ... although no one has heard, by any express report, that they two ever saw 'Ubaiy or ever heard any tradition from him. Again, 'Abû.'Amıû 'ash-Shaibânî, who lived in the days of ignorance, and in the time of the Prophet . . . had grown to be a man, as well as 'Abû-Ma'mar 'Abdallah Bin Sinhabarah, gives ont two traditional statements as sustained, 'on the authority of? 'Abû-Mas'ûd 'al-'Ausâtî, on the authority of the Prophet ...; and, again, 'Ubaid Bin 'Umair, who was born in the time of the Prophet, gives out a tradition as sustained 'on the authouty of 'Umm Salamah, wife of the Prophet ..., on the authority of the Prophet; and, again, Kais Bin 'Abn-Hazim, a contemporary of the Propliet . . . gives out three traditional statements as sustained 'on the authority of 'Abû-Mas'ûd 'al-'Anşarî, on the authority of the Prophet . . .; and, again, 'Abd 'ar Rahmân Bin 'Abû-Laila, who committed traditions to memory on the authority of 'Umar Bin 'al-Khattab, and had intercourse with 'Alî-to both of whom may God be gracious !- gives out a tradition as sustained, 'on the authority of' 'Anas Bin Mâlik, on the authority of the Prophet . . .; and, again, Rib'i Bin Hirash gives out two traditions as sustained, 'on the authority of' Imran Bin Husain, on the anthority of the Prophet . . . , and one tradition 'on the authority of' 'Abû Bakrah, on the authority of the Prophet . . . , although Rib'i heard tradition from 'Alî Bin 'Abû-Talib-to whom may God be gracious!and reports on his authority; and, again, Nafi' Ibn Jubair Bin Mut'am gives out a tradition as sustained, 'on the authority of' 'Abû Shuraih 'al-Khuzâ'i, on the authority of the Prophet...; and, again, 'an-Nu'mân Bin 'Abû.' Aiyash gives out three traditions as sustained, 'on the authority of' 'Abû-Sa'id 'al-Khudi'—to whom may God be gracious!—on tho anthority of the Prophet ...; and, again, 'Aṭa' 'Ibn Yazîd 'ad-Daithî gives out a tradition as sustained, 'on the authority of' Tamîm 'ad-Dàrî, on the authority of the Prophet . . .; and, again, Sulaiman Bin Yasar gives out a tradition as sustained, 'on the authority of' Rafi' Ibn Khadij, on the anthority of the Prophet . . .; and, again, Humaid Bin 'Abd 'ar-Rahman 'al-Himyari gives out traditions as sustained, 'on the authority of' 'Abû-Hurairah, on the anthority of the Prophet . . .

"Now, as for all these followers of the Prophet in the second degree, whose reporting 'on the authority of' Companions whom we have named is here noticed, there is no express memorial, so far as we know, in any report, of their having heard tradition from those whom they refer to as their authorities, nor, in any traditional statement itself, of their having ever met them; and yet the supports referred to are held to be sound by

those familiar with traditional statements and reports, who have never, to our knowledge, regarded any of them as weak, nor sought to make out in regard to them the fact of oral communication from one to another of the reporters, inasmuch as each one of them may possibly have heard tradition from his given authority, without any absurdity, because, living at the period they did, they were in habits of intercourse with the

Companions.

"This new-fangled talk of our author which we have set forth, to the effect that tradition is rendered weak by the cause alleged, is too trifling to be long dwelt upon, or brought prominently into notice, for as much as it is an innovation, and a wrong-headed way of treating the subject, which no primitive traditionist ever gave expression to, and those of later times know nothing of. We therefore need not add anything by way of refutation of it, the opinion expressed having no more force than we have represented, either in itself or as advocated by our author. May God prosper the setting aside of whatever is opposed to the views of our doetors—in Him is my confidence!"

To these contributions to our knowledge of the science of Muslim tradition we add two extracts from H. and J., which introduce us to the collections of tradition in highest repute among the Muslims, and furnish some dates of importance in the history of the science, already, however, in part anticipated by notes on preceding pages. Our first extract is from H.:*

فتعل

لما تفارتت مراتب الصحيم والصحاح بعدها اصبح من بعض فاعلم ان الذى تقرر عند جمهور تحدين ان سحيم البخارى مقدم على ساير الكتب المصنفة حتى قلوا اصبح الكتب بعد كتاب الله سحيم البخارى وبعض المغاربة رحوا سحيم المسلم على سحيم البخارى والجهور يقولون ان هذا فيما يرجع الى حسن البيان وجودة الوضيع والترتيب ورعاية دقيق الاشارات ومحاسن النكات في الاسانيد وهذا خارج عن المحث والكلام في الصحة والقوة وما يتعلق بها وليس كتاب يساوى سحيم البخارى في هذا الباب بدليل كمال الصفات الني اعتبرت في الصحة في رجاله وبعضهم توقف في ترجيح احدها على الاخر والحق هو الاول والحديث الذي اتفق البخارى ومسلم على تخريجه يسمى متفقا عليه وقال الشيخ بشرط ان يكون عن وعشون واحد وقالوا مجموع الاحاديث المتفقة عليها الفان وناشهاية وستة وعشون وبالجاذ ما اتفق عليه الشيخان مقدم على غيرة ثم ما تفود به وعشون وبالجاذ ما اتفق عليه الشيخان مقدم على غيرة ثم ما تفود به وعشون وبالجاذ ما اتفق عليه الشيخان مقدم على غيرة ثم ما تفود به

^{*} fol. 3, rect. and rers.

البخارى فر ما تفرد به مسلم فر ما كان على شرط البخارى ومسلم فر ما هو على شرط البخارى ومسلم فر ما هو على شرط مسلم فر ما هو رواه من غيرها من الايخة المذين النزموا الصحة ومحموه فالاقسام سبعة والراد بشرط البخارى ومسلم ان يكون الرجال متصفين بالصفات التي يتصف بها رجال البخارى ومسلم من الصبط والعدالة وعدم الشذوذ والنكارة والغفلة وقيل المراد بشرط البخارى ومسلم رجال انفسهم والكلام في هذا طويل ذكرناه في مقدمة شرح سفر السعادة

فصل

الاحاديث الصحيحة لم تنحصر في صحيحي البخاري ومسلم ولم يستوعبا الصحاح كلها بل فا منحصران في الصحاح والصحاح التي عندها رعلي شرطهما ايصا لر يورداها في كتابيهما فصلاعما عند غيرها قال البخاري ما اوردت في كتابي هذا الا ما صبّح ولقد تركت كثيرا من الصحاح وقال مسلم الذي اوردت في هذا الكتاب من الاحاديث صحيم ولا أقول أن ما تركت ضعيف ولا بد أن يكون في هذا الترك والاتيان وجه تخصيص الايراد والترك اما من جهة الصحة او من جهة مقاصد اخر والحاكم ابو عبد الله النيساپوري صنف كتابا سماه المستدرك بمعنى أن ما تركه البرنجاري ومسلم من الصحام أورده في هذا الكتاب وتلافي واستدرك بعضها على شرط الشيخين وبعصها على شرط احدها وبعصها على غير شرطهما وقال ان البخاري ومسلما لم يحكما بانه ليس احاديث عجيجة غير ما خرجاه في هذين الكتابين وقال قد حدث في عصرنا هذا فرقة من المبتدعة اطالوا السنتهم بالطعن على ايمة الدين بان مجموع ما صرح عندكم من الاحاديث لم يبلغ زهاء عشرة الاف ونقل عن البخاري انه قال حفظت من الصحاح مأية الف حديث ومن غير الصحاح مأتى الف والظاهر والله اعلمر انه يريد الصحيم على شرطه ومبلغ ما أورد في هذا الكتاب مع التكرار سبعة الاف ومأيتين وخمس وسبعون حديث وبعد حذف التكرار اربعة الاف ولقد صنف الاخرون من الاجة محاحا مثل محيج ابن حزبة الذي يقال له امام الايمة وهو شيخ ابن حبان وقال ابن حبان في مدحه ما رايت على وجد الارض احدا احسر في صناعة السنن واحفظ للاحفاظ الصحيحة

منه كان السنن والاحاديث كليا نصب عينه ومثل محيج ابن حبان تلميذ ابن حزية ثقة فاصل امام فهام وقال الحاكم كان ابن حبان من اوعية العلم واللغة والحديث والوعظ وكان من عقلاء الرجال ومثل محيج الحاكم ابى عبد الله النيساپورى الحافظ الثقة المسمى بالمستدرك وقد تطرق في كتابه هذا التساهل واخذوا عليه وقالوا ابن حزية وابن حبان امكن واقوى من الحاكم واحسن والطف في الاسانيد والمتون ومثل المختارة للحافظ صياء الدين المقدسي وهو ايصا خرج محاحا ليست في الصحيحين وقلوا كتابه احسن من المستدرك ومثل محيج ابن عوانة وابن السكن والمنتقى لابن جارود وهذه الكتب كلها مختصة بالصحاح ولكن جماعة انتقدوا عليها تعصبا وانصافا وفوق كل ذي علم عليم والله اعلم

فصل

الكتب الستة المشهورة المقررة في الاسلام التي يقال لها الصحاح الست في صحيم البخاري وصحيم مسلم والجامع للترمذي والسنن لابي داود وسنن ابن ماجة وعند البعض الموطا بدل ابن ماجة وصاحب جامع الاصول اختار الموطا وفي هذه الكتب الاربعة اقسام من الاحاديث من الصحاح والحسان والصعاف وتسميتها بالصحاح الستة بطريق التغليب وسمى صاحب المصابيم احاديث غير الشيخين بالحسان وهو قريب من هذا الوجه قريب المعنى اللغوى او هو اصطلاح جديد منه وقال بعضهم كتاب الدارمي احرى واليق بجعله سادس الكتب لان رجاله اقل ضعفا ووجود الاحاديث المنكرة والشاذة فيه نادر وله اسانيد عالية وثلاثياته اكثر من ثلاثيات البخاري وفذه المذكورات من الكتب اشهر الكتب وغيرها من الكتب كثرة شهرة ولقد اورد السيوطى في كتاب جميع للوامع من كتب كثيرة ينجاوز خمسين مشتملة على الصحاح والحسان والضعاف وقال ما اوردت فيها حديثا موسوما بالوضع اتفق المحدثون على تركه ورده والله اعلم وذكر صاحب المشكوة في ديباجة كتابه جماعة من الايمة المتقين وهم البخاري ومسلم والامام مالك والامام الشافعي والامام احمد بن حنبل والترمذي وابو داود والنسائي وابن ماجة والدارمي والدارقطني والبيهقي ورزين واجمل في ذكر غيرهم وكتبنا احوالهم في كتاب مفرد مسمى بالاكمال بذكم اسماء الرجال ومن الله التوفيق وهو المستعان في المبداء والمنال

" Section.

"Since the grades of sound tradition differ one from another, and some sound traditions are sounder than others, be it known that the Sahîh of 'al-Bukharî is established in the estimation of traditionists as superior to all other books of human authorship, so that, as they say, 'the Sahih of 'al-Bukhari is the most perfect of books, next to the Book of God.' Some of the people of the West, however, attach greater weight to Muslim's Sahih than to that of 'al-Bukhan'; though every one says that this preference is based upon particulars relative to nicety of expression, together with the fullness of that collection, the arrangement, and the preservation, in the supports, of references to minute points and nice distinctive marks—all which is aside from the subject-matter, and has nothing to do with the question of the soundness and strength of a tradition, and points therewith connected, as regards which there is no book equal to the Sahîh of 'al-Bukhârî, since the guarantees whom he relies upon unite every quality taken into account with reference to soundness of tradition. Others, again, hesitate about preferring either of the two to the The true view is the first which we have stated.

"That tradition which both Muslim and 'al-Bukhârî give out is said to be agreed upon (متغف), 'provided,' as the Shaikh says, 'it be given on the authority of one and the same witness of the Prophet;' and the traditions thus agreed upon are said to amount, in number, to two thousand three hundred and twenty-six. To be brief, that which the two masters agree upon is preferred to all other tradition; next comes that which 'al-Bukharî alone gives out; then, that which Muslim alone gives out; then, that which answers to the stipulation of both 'al-Bukhari and Muslim; then, that which answers to the stipulation of 'al-Bukhari alone; theu, that which answers to the stipulation of Muslim alone; and lastly, that which is reported by other eminent teachers strenuous for soundness, and which they regard as sound. There are, therefore, seven subdivisions. The force of the expression: 'stipulation of 'al-Bukhari and Muslim' is that the given guarantees of a tradition were characterized by those qualities which the guarantees relied upon by 'al-Bukhari and Muslim possessed, namely, retentiveness, integrity, and freedom from separateness, indeterminateness, and carelessness. Another explanation of the expression: 'stipulation of 'al-Bukhari and Muslim' is this, that it denotes an identity of the guarantees of a tradition with those whom they two rely upon. The discussion of this point has been drawn out to a great length: we have given an account of it in the introduction to the (شرح سفر السعادة) Commentary on the Book of Felicity

" Section.

"Sound traditions are not confined to the Sahihs of 'al-Bukhârî and Muslim, nor are these two works all the Sahihs. On the contrary, these are two among the Sahihs; nor do their authors bring forward, in the two books, all those traditions which, in their opinion and according to their stipulation, are sound, to say nothing of such as are sound in the view of others than themselves. Says 'al-Bukhârî: 'I have brought forward, in this my book, nothing but sound tradition, and have also left

out many traditions which are sound;' and Muslim says: 'Whatever traditions I have brought forward in this book are sound, while I do not say that what I have left out is weak tradition.' Yet, doubtless, in this leaving out and bringing forward there was that sort of particularization which belongs to those acts, either in respect to soundness or in respect to some other points kept in view. 'Al-Hâkim'Abû-'Abdallâh 'an-Nîsâpûrî composed a book which he ealled the Repaired Soluth (فانستندو), a name signifying that in this book were brought forward by him sound traditions which 'al-Bukhârî and Muslim had left out, mended and repaired, some according to the stipulation of both of the two masters, others according to the stipulation of one or other of the two, and others still according to other stipulation than theirs; and this author says that "al-Bukhari and Muslim did not judge other traditions than those which they brought forward in their two books to be unsound,' adding: 'for all that this has been asserted, in our time, by a party of the "Innovating Sect," who have protruded their tongues in reproach against the eminent teachers of religion, with the words: "All the traditions which are sound, in your view, do not come up to the number of ten thousand." Morcover, 'al-Bukhârî himself is reported to have said: 'I have committed to memory one hundred thousand sound traditions, and two hundred thousand unsound'-and it is plain, and God knows, that he means to speak of that which is sound according to his own stipulation -whereas the sum total of what he has brought forward in his book, repetition included, is seven thousand two hundred and seventy-five traditions, and, exclusive of repetition, four thousand.

"Salths have been composed, also, by later emiuent teachers, for example: the Sahîh of Ibn Hazîmah, surnamed the Imâm of Imâms, who was the master of 'Ibn Hibban, and in praise of whom 'Ibn Hibban says: 'I have not seen, on the face of the earth, any one of nicer perception with regard to what constitutes a traditional law, or whose memory was more stored with sound memorials-all traditional laws and traditions were present to his mind; and the Sahih of Ibn Hibban, the pupil of Ibn Hazimah, a reliable authority of superior qualifications, an eminent teacher of high intelligence, of whom 'al-Hakim says: 'Ibn Hibbân was a repository of learning, a living dictionary, a store-house of tradition and instruction in duty, and a man of genius;' and that called the Repaired Sahih, by 'al-Hakim 'Abû-'Abdallah 'an-Nîsâpûrî, the memorizer, the reliable authority, whose book has, to its injury, that want of striet legitimacy which we have referred to, and to whom people have made the objection that Ibn Hazîmah and Ibn Hibbân are of more weight and stronger than 'al-Hakim, as well as more nice and elegantly discriminating in respect to supports and texts; and the Selection from the Sahih (sitish), by the memorizer Phiya' 'ad-Din 'al-Makdasi, § who also brought out sound traditions which are not in the Sahihs of

^{*} A similar account of this book is given by Haji Khalfah, v. 521, who puts the death of the author A. H. 405.

[†] Died A. H. 311. His Saḥih is mentioned by Hāji Khalfah, iv. 99. ‡ See Hāji Khalf. Lex., iv. 99.

[§] Mentioned by Haji Khalfah, v. 440, who gives for the title of the work 'al-Mukhtarah fi 'al-Hudith, and says that the author died A. H. 643.

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'al-Bukhârî and Muslim, whose book is said to be more nice than the Repaired Ṣaḥîḥ; and the Ṣaḥîḥ of 'Abû-'Awânah and that of 'Ibn 'as-Sakan;* and the Marrow of the Ṣaḥiḥ (المنتقى), by 'Ibn Jârûd.† All these books are designated as Ṣaḥiḥs, though a certain set of persons discriminate with regard to them, as well in the spirit of strenuous purism as with impartial criticism—there is one who knows, superior to all instructed men—God knows.

" Section.

"The six books, universally known and of established authority within the pale of Islâm, called the Six Sahîhs, are the Sahîh of 'al-Bukhârî, the Sahîh of Muslim, the Jâmi' of 'at-Tarmidhî, the Sunan of 'Abû-Dâwud, the Sunan of 'Ibn Mâjah, and the Muwatta'—which last is by some put in the place of 'Ibn Majah's collection, and was preferred by the author of the Jâmi' 'al-Usûl. But these last named four books embrace traditions of more than one class, namely, both sound, fair, and weak: the Six Sahihs are so named by way of ascribing to them a certain superiority; and the author of the Masabih calls all traditions given out by others than the two masters fair, which is a derived form of expression, either allied to the usage of that term in common parlance, or being a new technical application of it on the part of the author. persons say that the book of 'ad-Dârimî § is more worthy and suitable to be ranked as the sixth book, because fewer guarantees marked by any weakness are relied upon in it, and traditions undetermined, or separate, are rarely introduced, while it has some supports of a superior character, and its trebly supported traditions (تلاثيات) are more numerous than those of 'al-Bukhârî.

"These which we have mentioned are the most noted books of tradition; but others are in extensive repute. Indeed, 'as-Suyûtî, in the Kitâb Jamî' 'aj-Jawûmi', cites many books, to the number of more than forty, as containing both sound, fair, and weak traditions, and says: 'I have not brought out, as contained in either book, any tradition to which is attached the stigma of being made up, which traditionists have agreed to leave out and reject—God knows.' The author of the Mishkût, also, in the preface to his book, mentions a multitude of eminent teachers of tradition, of devout lives, namely: 'al-Bukhârî, Muslim, the eminent teacher 'Ahmad Bin Ḥanbal, 'at-Tarmidhî, 'Abû-Dâwud, 'an-Nasâ'î, 'Ibn Mâjah, 'ad-Dârimî, 'ad-Dârakuṭnî, 'al-Baihakî, Razîn, etc., about whom we have written in a special book entitled the Complete Statement of the Names of the Guarantees of Tradition (الكهال المال ال

^{*} The Sahih of 'Ibn 'as Sakan, who died A. H. 353, is called by Hâji Khalfah 'as Sahih 'al-Muntaka. See iv. 99, 100. The work of 'Abû-'Awânah here referred to appears to be an epitome of Muslim's Musnad, entitled Mustakhraj 'Abî 'Awânah: the author died A. H. 316. See Hâji Khalf. Lex., v. 520.

⁺ See Hâji Khalf. Lex., vi. 167.

See Haji Khalf. Lex., iii. 621. The author died A. H. 273.

[§] Entitled Musnad 'ad Dárimi. The author died A. H. 253. See Kitáb Tab., ix. 17 and Háji Khalf. Lex., v. 539.

There is another work by 'ad-Dârimî, entitled Thalâthiyât 'ad-Dârimî. See Hûjî Khalf. Lex., ii. 492.

Our last extract is from J.:*

. الباب الرابع في اسماء الرجال

الصحابي مسلم رأى النبي صلى الله عليه وسلم وقال الاصوليون من طالت مجالسته والتابعي كل مسلمر صحب صحابيا وقيل من لقيه وهو الاظهر والجحث عن تفاصيل الاسماء والكني والالقاب والمراتب في العلم والودع لهاتين المرتبتين وما بعدهما يفضى الى تصلوبل توفي مالك بالمدينة سنة تسع وسبعین ومأیة وولد سنه ثلث او احدی او اربع او سبع وتسعین وابو حنيفة ببغداد سنة خمسين ومأية وكان ابن سبعين والشافعي عصر سنة اربع ومأتبين وولد سنة خمسين ومأية واحمد بن حنبل ببغداد سنة احدى واربعين ومايتين وولد سنة اربع وستين ومأية والبخارى ولد يوم الجعة لثلث عشرة خلت من شوال سنة اربع وتسعين ومأية ومات ليلة الفطم سنة ست وخمسين ومأينين بقرية خرتنك من بخارا ومسلمر مات بنيسابور سنة احدى وستين ومأيتين وكان ابن خمس وخمسين وابو داود بالبصرة سنة سبع وسبعين ومأيتين والترمذي مات بترمذ سنة تسع وسبعين ومأيتين والنسائي سنة ثلث وثلثمأية والدارقطني ببغداد سنة خمس وثمانين وثلثمأيذ وولد بها سنة ست وثلثمأية والحاكم بنيسابور سنة خمس واربع مأية وولد بها سنة احدى وعشرين وثلثمأية والبيهقي ولد سنة اربع وثلثين وثلث مأية ومات بنيسابور سنة ثمان وخمسين واربعمأية تنت السالة

" Chapter Fourth.

" Names of Guarantees.

"The term 'witness' (الصحابى) denotes any Muslim who saw the Prophet . . . , or, as the professed teachers of the foundations of religion say, one who had long sittings with him; and the term 'follower in the second degree' (التابعي) means any Muslim who was associated with, or, as is also said, who met, a witness. So much is most plain. But to look into all the distinctions of names, titles, epithets, and degrees, which belong to the science, and to apply them to these and the succeeding orders of reporters, would be a long affair.

^{*} pages 6, 7.

142 E. E. Salisbury, on the Science of Muslim Tradition.

"Målik died at Madînah in the year 179, and was born in 93, or 91, or 94, or 97. 'Abû Ḥanîfah died at Baghdâd in 150, agcd seventy years. 'Ash-Shâfi'î died in Egypt in 204, and was born in 150. 'Aḥmad Bin Ḥanbal died at Baghdâd in 241, and was born in 164. 'Al-Bukhârî was born on Friday, the 13th of Shauwâl, in the year 194, and died on the night of the festival succeeding Ramadhân, in the year 256, in the city of Khartank in Bukhârâ. Muslim died at Nîsâbûr in 261, aged fîty-five years. 'Abû-Dâwud died at 'al-Başrah in 277. 'At-Tarmidhî died at Tarmidh in 279. 'An-Nasâ'î died in the year 303. 'Ad-Dârakutnî died at Baghdâd in 385, and was born there in 306. 'Al-Ḥâkim died at Nîsâbûr in 405, and was born there in 321. 'Al-Baihakî was born in 334, and died at Nîsâbûr in 458.

"End of the treatise, etc."

ARTICLE V.

MEMOIR

ON THE

LANGUAGE OF THE GYPSIES,

AS NOW USED IN THE TURKISH EMPIRE.

By A. G. PASPATI, A. M., M. D.

TRANSLATED FROM THE GREEK BY REV. C. HAMLIN, D.D.,
MISSIONARY OF THE A. B. C. F. M. AT CONSTANTINOPLE.

Presented to the Society May 17th, 1860.

NOTE BY THE TRANSLATOR.

The following memoir is a translation but in part. The learned author has written the whole of the Grammar and some other parts in English, which has needed very little correction. The original is written in so pure a Greek style, that any one who has studied the ancient Greek might read it, occasionally noticing an interesting change of meaning without a change of form, or the reverse. If all our Greek Professors should study the living Greek, in Greece, it would reanimate the dead language, and clothe it with a new power and beauty.

We are confident that this article will be acceptable to American scholars, both for its intrinsic merits and as a specimen of the present literature and learning of the Greeks.

This memoir on the Language of the Gypsies will be divided into five sections, as follows: 1st. Introductory remarks on the history and present condition of the Gypsy race; 2nd. General explanation of the character and connections of their language, and a critical estimate of the works which have hitherto appeared upon the subject; 3rd. A vocabulary, with comparative etymologies from the Sanskrit and other languages; 4th. A comparison of the phonetical system of the Gypsy with that of the Sanskrit; 5th. A grammar of the language.

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SECTION I.

HISTORY OF THE GYPSIES.

Most of the writings relating to the Gypsies have hitherto been unsatisfactory and obscure. In various ways, laborious and learned writers have endeavored to explain the origin and affinities of these nomadic, wandering people, who dwell or roam in the midst of us, but are generally regarded with aversion and disgust.

The leading subject of this memoir will be the language and origin of the Gypsies, and not their customs and history. A few preliminary notices, however, may help the reader to appre-

ciate what we shall offer in regard to their language.

A valuable authority upon the Gypsies of Western Europe is the Englishman George Borrow. His work, "The Zincali, or an Account of the Gypsies of Spain," exhibits from beginning to end a man thoroughly acquainted with this people, speaking their own language with such facility, and with such a knowledge of their habits and customs, that he was everywhere received as a veritable Gypsy. His vocabulary of the language is invaluable, although, as we shall see, his want of acquaintance with the Sanskrit prevented his carrying forward his most useful labors to the desired consummation.

In 1417,* in the reign of Sigismond, emperor of the Romans and king of Hungary, the Gypsies first appeared in Europe, to the number of about three thousand. They resided first in Moldavia, and thence spread through Transylvania and Hungary. A part, led by Ladislaus their chief, having obtained leave to settle upon the crown-lands, and living unmolested under the protection of the autocrat, gradually adopted the religion of the country which they inhabited. And, to the present time, such is the very common custom of this race: everywhere they adopt the common worship, caring little for its dogmas.

They received from Sigismond the privilege of having their own chief, but this was taken from them in 1609. In 1782, according to the census of that time, there were about 50,000 Gypsies in all Hungary, but their number afterwards diminished.

In vain did Joseph II. endeavor to civilize them.

It is worthy of remark that in Hungary, according to the testimony of the Gypsies themselves, they have retained their

original language in the highest degree of purity.

They are now found scattered over Europe, and through Russia, excepting the province of Petersburg, whence they were long since expelled. They also prefer the extended and fruitful

^{*} Bataillard, as we shall presently see, gives an ealier date than this.

plains of Interior Russia, where they find abundant pasturage for their horses, to the trade in which they are so much addicted. But nowhere have they been so fortunate as in the province of Moscow, where many of them have magnificent dwellings, splendid carriages, and near relationship with highborn Russians, preserving that singular good fortune, the sweet voice of the maidens, peculiar to their uncultivated tribes, and highly esteemed by the Russians.

About the beginning of the fifteenth century, says a French historian, the Gypsies appeared in Paris, to the number of one hundred and thirty-two. The French looked upon them as most satanic witches, and persecuted them with such severity

that they fled into Spain.

In Spain they are numerous, in certain large cities, having quarters called *Gitanerie*. The fertility of the soil, and the mildness of the climate, were both favorable to this roaming race. The most part took refuge in Andalusia, where they live to this day, no longer nomadic, but laboring in the cities and villages.

A celebrated law of Charles III., who deceased in 1788, introduced a healthy and saving amelioration into the life of the race, which had become intolerable from its addiction to theft and robbery. What the civil arm and the severest laws were powerless to do, this wise law speedily effected. Charles repealed the inhuman laws which had been published against the Gypsies, invited them to dwell fearlessly with the native Spaniards, and secured to them the privileges of education and of participation in civil offices. While he threatened to punish the Gypsies who did not conform to the law, he invited the Spaniards to forget their ancient hatred, and live with them under the laws and government, as children of the same country.

This law, as also the philanthropy of the monarch, had a great effect upon the Gypsies. They collected into cities and villages, abandoned their thievish life, and, forgetting past evils, gave themselves up to the common labors of civilized existence.

But this law, the like of which Europe had not then seen, had the fate of many other laws, in not attaining its immediate design, which was to make the Gypsies forget their language, and become Catholic Christians and faithful Spaniards. No such result followed, and they remain to this day, in Spain, as elsewhere, a distinct race, and having a language common to all the branches dispersed through the world.

They appeared in England about three centuries ago, where they were mercilessly persecuted. Most of them were hung as magicians and satanic witches. A few survivors concealed themselves in dens and caves, and came out only in the night to beg their food. As the rage of the bigoted masses softened down, the starved and naked Gypsies reappeared, and, spreading them-

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selves according to their national custom, remained in different

places and cities of England.

It is worthy of remark that the foggy and sunless climate of England has given to the Gypsies more muscular strength and beauty than their fellow-countrymen have elsewhere, and more even than the English have in a similar rank of life.

Every where the Gypsy race is strongly marked by similar

traits and customs.

They are celebrated dealers in horses, they are famous horse-doctors, their old women are noted fortune-tellers, and the young women drive a very profitable business in singing love-songs,

decent and indecent, in the streets and public places.

They have no principles, they serve no God but the God of gain and fraud, they conform to all religions. They excite the voluptuous passions of others, but they rarely fall themselves into the sins which they lead others into. A merciless death hangs over the woman who has illicit intercourse, whether with

a Gypsy or a foreigner.

I have followed Borrow in his general description of the Gypsies of Europe. As regards those in Turkey and in the Wallachiau provinces, or rather in all those countries formerly known under the denomination of Dacia, I must refer the reader to other authorities, who have treated the subject more at length, particularly as my remarks upon their dialect may be elucidated by

their history and social position in these countries.

The latest writer on the Gypsies is J. A. Vaillant.* This author resided for many years in the Danubian provinces, and paid particular attention to the history of the numerous Gypsies scattered over those countries. In describing the origin of these people, whose emigrations he makes coeval with those of the ancient world, he launches himself into such an ocean of crude and undigested learning, he unites such wild theories with positive facts, he distorts ancient history in such an unphilosophical manner, that the reader never knows where he is, or whither he With the exception of his valuable remarks on the noble efforts of the Hospodars of Wallachia and Moldavia, to liberate from bondage and oppression so many Gypsies in those provinces, his work is of little value, either in a historical or a philological point of view. He appears to have studied these people for a long time, and he would have bestowed an inestimable boon upon philology and ethnography, if, like Borrow, he had given us a vocabulary of the dialect of the Wallachian Gypsies, to which he appears to have paid little attention, though

† "Je n'aurai point à regretter les dixhuit années que j'ai employées à la bible de leur science." p. 22.

^{*} Les Rômes—Histoire Vraie des Vrais Bohémiens, par J. A. Vaillant, Fondateur du College Interne de Bucarest. Paris, 1857.

he confesses that the foundation of their language is Sanskrit.* Though he confesses in another place that their language is the only criterion of their origin,† it appears strange that he has not based his work on this idea, by which their mysterious history would have been still farther elucidated.

Later writers on the social and political history of the Danubian provinces have followed Vaillant as an authority on the Gypsies, so numerous in those countries and in the provinces of Turkey south of the Danube. As no general persecutions ever took place against them, either on religious or political grounds, they have been suffered to live quietly in those provinces, and have multiplied to such a degree that they are superior in number to their fellow-countrymen in all the other states of Europe.

Those who are acquainted with the political state of Turkey are aware how difficult it is to give even an approximate estimate of its inhabitants. What confidence then can we give to Vaillant's statistics,‡ who makes the number of Gypsies residing in Wallachia 125,000, in Moldavia 137,000, Turkey 200,000, Transylvania and the Banat of Temeswar 140,000—total 602,000? According to the same author, the number of Gypsies scattered over Europe amounts to 837,000, so that nearly three fourths of all the Gypsies of Europe are to be found in Turkey and the provinces north of the Danube. Ubicini | has followed Vaillant, with slight variations. Regnault¶ makes the Gypsy population of Wallachia and Moldavia 300,000, more numerous however in Moldavia than in Wallachia. He assigns 140,000 to Transylvania, Bucovina, and the Banat of Temeswar. All these numbers appear to me to be greatly exaggerated, and they may be owing in part to information from the Gypsies themselves, who by such mendacious accounts are inclined to give themselves importance and consideration in these provinces. Certain it is. that in Turkey proper, where the Gypsies are set down by Vaillant as 200,000, no census can be taken of them, even approximately; for a great part of the Gypsy population are continually roaming from plain to plain. Still, such information is valuable, as tending to show the great numbers of the Gypsy population in these countries, a fact remarked by travellers whose object has not been either the census or the history of this degraded people.

^{* &}quot;Mais il n'en est pas moins vrai, que, si la forme en varie, le fond en est toujours un partout, et pour tous, et ce fond est le Sanscrit." p. 13.

^{† &}quot;Leur langage, seul critérium de leur origine." p. 4.

[†] p. 481. § A late writer on Constantinople and Turkey, Louis Enault (Paris, 1855, p. 226), estimates the number of Gypsies in all the provinces of the Sultan at 214,000.

Provinces d'Origine Roumaine. Univers Pittoresque. Paris, 1856, p. 11.

Histoire Politique et Sociale des Principautés Danubiennes, par M. Elias Regnault. Paris, 1855.

The Gypsies in the Danubian provinces are divided into three classes:

1. The Laïesi, including artisans in works of wood and iron,

musicians, exhibitors of bears, etc.

2. The Vatrari, employed in all the menial employments of the household. They are generally the servants of the servants. At times they have hecome head-cooks, coachmen, and valets de chambre of their wealthy masters.

3. The Netotsi, half savage, half naked, living by theft and rapine, feeding in times of want upon cats, dogs, and mice; they are the most degraded and debased of all the Gypsy population. This class, by their turbulent conduct and nocturnal depredations, have brought upon themselves dire persecution on the part of the local authorities, in which their more innocent fellow-countrymen have been in part sufferers. The Netotsi are of a darker hue, with short frizzled hair. Some are nearly hlack, and this difference of complexion may corroborate the statements of some authors, who make them the descendants of a separate immigration, and from a climate differing from that of the former two.

All the Gypsies in the Danubian provinces, like their fellow-countrymen in the rest of Europe, follow the religion of the people among whom they live. Here, as elsewhere, they seem indifferent to every external form of worship, and are considered by the Christian people in the same light as the Mohammedans view their Gypsy co-religionists in Turkey. The Turks, who are not particularly punctilious in the choice of their wives, often marry Gypsy women. Not so with the Christians, who have kept themselves aloof from family connections with the Gypsies, and will rarely have any intercourse with them. No Gypsy is ever permitted to enter into any of the sacerdotal offices of the Greek church.

A singular trait in the political history of the Gypsies residing in the Danubian provinces has been their state of bondage from time immemorial. Bataillard,† who has written on the Gypsies scattered over Europe, states that, from two charts discovered lately among the archives of the monastery of Tismana in Little Wallachia, it appears that they were to be found in Wallachia in the middle of the fourteenth century, and were then as now in a state of slavery. The long immunity from persecution enjoyed by the Wallachian Gypsies was probably owing to their state of slavery to the great landholders and the all-powerful monasteries, by whom their misdeeds were often concealed, and by whose power and influence, as interested masters, the iron rod of persecution was often arrested. As many of them passed to the

* Vaillant, p. 319.

[†] Nouvelles Recherches sur l'Apparition et la Dispersion des Bohémiens en Europe.

monasteries with landed property, on the death of charitable individuals, no doubt, from reverence to these asylums, such must have been protected in preference to those belonging to the state or to private proprietors, who at times suffered in the

stormy periods of political disturbance.

Did these men subject themselves voluntarily to bondage? Were they driven to seck a shelter in slavery, to avoid ruthless persecution and impending death? Why did they not emigrate to other parts of Europe, where their countrymen are often suffered to roam, and in this manner avoid political and religious persecutions by flight and concealment? It is probably owing to a milder treatment on the part of the people among whom they came to dwell, and to the reports of heartless and bloody persecutions suffered by their countrymen in other provinces of Europe. Whatever the reasons may be which induced these despised people to subject themselves to bondage, in preference to a lawless and persecuted life, certain it is that in no part of Europe have they multiplied in such vast numbers as in these Danubian provinces.

Both in Wallachia and Moldavia a change has been lately effected in their condition. Alexander Ghika, Hospodar of Wallachia, and Stourja of Moldavia,* the former in 1837, and the latter in 1844, have both decreed the freedom of the Gypsies in their respective provinces, and this people, so long oppressed, enslaved in body and mind, will probably in a short time, as they rise in wealth and learning under the fostering hand of

freedom, attain to some yet higher consideration.

SECTION II.

LANGUAGE OF THE GYPSIES.

We come now to the principal subject of our memoir, the language of the Gypsies, which, with our present unsatisfactory knowledge of this people, is of paramount importance as a historical demonstration of their origin and nationality. The entire history of this race is in its idiom, and this point of comparative philology will, I hope, prove to the reader the inestimable advantages accruing to history from the comparative study of spoken idioms. It is wonderful that a race differing so widely from the races around them, so universally avoided, as foreign and barbarous, should have been so long in possession of indis-

* Vaillant, p. 435-442.

[†] The Gypsies are now allowed to intermarry with Wallachians, and such marriages are consecrated by the Church. Formerly the price of a Gypsy was 150 to 200 francs. Ami Boué, Turquie d'Europe (Paris, 1840), iii. 325.

putable proofs of their origin and fatherland. History has not traced their mysterious migrations, or noted any sudden irruptions into more cultivated lands. It has marked, however, their notorious wickedness, their unconquerable propensity to roaming and pilfering, and their universal abhorrence of the customs and religion of the people amongst whom they roamed or dwelt.

Their origin has till of late been a mystery, and such it would have continued to be had not philologists undertaken the study of their spoken language, a study of extreme difficulty, owing to their long continued ignorance, and constant avoidance of a

higher mental cultivation.

The study of the Gypsy language differs so widely from that of all other idioms, that the reader will excuse the following remarks upon the subject. Not only does it differ from that of other languages preserved both in writing and in the mouth of the people, but it is another thing, also, from the acquisition of unwritten dialects of savage tribes. In these latter, the language is one and the same, easily acquired by the laborious philologist who may mingle with the people, and from long colloquial usage fix their grammatical rules. But the Gypsies constantly avoid all who are foreign to their tribe, and, being universally abhorred, they shun intercourse, and suspect the most godlike benevolence shown to them. Acquainted as they are with the spoken language of the people among whom they dwell, they generally use it in the hearing of all, so that even here in Turkey, where they are so numerous, many do not even suspect the existence of any idiom peculiar to themselves.

Another consideration, extremely important in the study of this idiom, is the intermixture of foreign terms, generally borrowed from the language of the surrounding people, at times remodelled to the Gypsy forms of speech, and at times so distorted as to bear a very distant resemblance to the original word. Sheer ignorance, and long separation from those of their own tribe, have induced many Gypsies here in Turkey to make use of exotic terms, while many in their own neighborhood were constantly using well known and pure Gypsy terms. In such cases the student is extremely embarrassed, unless some one kinder than the others may direct him to a more learned Gypsy for farther information. It is, therefore, of the utmost importance that the student should possess a perfect acquaintance with the language of the people among whom they dwell, and particularly with the vulgar jargon, which can never be learned in dictionaries or books, words floating from mouth to mouth, extremely significant, and precisely of a stamp to please the low taste of a Gypsy in speaking to foreigners of similar education. This knowledge is of primary importance; otherwise he may introduce into his vocabulary, as vernacular terms, words which

have no connection with the Gypsy language.* In this manner alone can we obtain a vocabulary of their language free from allwords of foreign idioms, and capable of affording a solid historical basis for farther philological researches. This observation has often occurred to me in the course of this memoir, and such is the importance of it that its full weight cau be felt only by those who have had the courage to undertake such an ungrateful task. Even in the composition of every Gypsy vocabulary, there should be a well-defined demarcation between foreign words and those native to the Gypsies, as a guide to others. Borrow is an illustration of this. In his vocabulary he has added a vast number of Spanish words, some pure, some mutilated, and every reader cannot but be perplexed with such a heterogeneous mass of terms, Spanish and Gypsy, without any guide as to their origin or etymology. Of what use, I ask, can a Gypsy vocabulary be, but as a foundation-stone to the history of the Gypsies? And in the vocabulary of Borrow, how can the student separate from the Spanish jargon the vernacular Gypsy? Who should have undertaken a similar work but a man like Borrow, who, moved by love to his fellow-men, went among the Gypsies, like a harbinger of peace, learned and spoke their language, and was perfectly conversant with the Spanish and with their jargon?

Even after all the learned works on the history and language of the Gypsies which I shall presently mention, a vast amount of treasure still lies hidden in the remains of their idiom which are scattered over their settlements in Europe. A comparative vocabulary, that should exhibit all the pure indigenous words preserved among all the Gypsies of Europe, to the entire exclusion of every foreign word, is still a desideratum, and would be a most precious acquisition to comparative philology, upon which might be finally based the true and undisputable theory of the origin of this people. Even as their language is now presented, most of the vocabularies exhibit a striking uniformity in all those terms which can be compared with the Indian languages, and which by common consent belong to the Gypsies. This, certainly, is a great incitement to farther labors.

The attempt to christianize the Gypsies, and to elevate them from their half-brutish state, by translations of the Holy Scriptures and other Christian works into their own idiom, I consider as perfectly useless. For by whom are such translations to be made, and by whom read? Here in Turkey, Gypsies roaming over the vast plains of Bulgaria, and speaking a purer Gypsy

over the vast plains of Bulgaria, and speaking a purer Gypsy dialect, often cannot understand those south of the Balkans,

^{*} The perusal of the Vocabulary will convince the reader of the truth of this proposition, and of the necessity of having some acquaintance with the language of those nations with whom the Gypsies have come into contact on their way to Europe.

and near Constantinople. Plain translations into the languages of the people among whom they dwell, Christian benevolence, and Christian oblivion of their misdeeds, may supply the want: they hate us as heartily as we hate them; they pilfer and injure

us, because we persecute and despise them.

Before proceeding to give an account of my own labors on the language of the Gypsies, as preliminary to the understanding of the Vocabulary, I will succinctly describe to the reader the labors of the many learned men who have up to this day paid particular attention to the study of this idiom. As the subject is little known, many, no doubt, will be surprised to learn how much has been already done in this field of literature.

Pott, who in his admirable work on the Gypsies has laboriously collected every thing that had been said on the subject up to the date of his labors (1844-5), may serve as a guide in the

history of Gypsy literature.*

The first writer on the Gypsies was Bonaventura Vulcanius, professor of Greek literature in Leyden, where he died in 1614. In his small treatise "De Nubianis Erronibus, quos Itali Cingaros appellant, eorumque Lingua"—published in the body of a greater work on the language of the Goths, at Leyden, 1597—he gives about sixty-seven Gypsy words, without any derivation, or plausible clue to their etymology or relationship. Of course, before the study of the Hindu languages became common in Europe, no plausible account could have been given of their origin. Vulcanius makes the Gypsies come from Nubia, in doing which he appears to adopt the opinion of the famous Scaliger.

After Vulcanius, no historical or linguistic work of much importance appeared on the language of the Gypsies, till the great work of Grellmann: "Die Zigeuner—Ein Historischer Versuch über die Lebensart und Verfassung, Sitten und Schicksale dieses Volks in Europa, nebst ihrem Ursprunge, von M. H. M. G. Grellmann:" Dessau und Leipzig, 1783. An improved and enlarged edition of this work was published in 1787, and, about the same time, it was translated into French by Baron de Bock.† The work of Grellmann produced considerable impression at the time of its publication, and though as a work of comparative philology it is of little value now, still it can be usefully consulted for its historical observations, as the author has judiciously collected nearly every thing that was known of the Gypsies anterior to his time.‡ Indian literature, then so little known, has made his work of comparatively little value to us now.

^{*} Die Zigeuner in Europa und Asien, i. 3.

[†] Oriental Collections [by W. Ouseley], ii. 386. † This author calculated the number of Gypsies in Europe as between 700,000 and 800,000, of whom 40,000 were in Spain, chiefly in the southern provinces.

In the Archæologia, or Miscellaneous Tracts relating to Antiquity, published by the Society of Antiquaries of London, vol. vii., London, 1785, are contained "Observations on the Language of the People commonly called Gypsies," in a letter to Sir Joseph Banks from Wm. Marsden. This learned author has made some observations on the relationship of the Gypsy language to the Hindustani, which had already been remarked by Ludolphus in 1691.* In this same work are contained the observations of Jacob Bryant on the Zingara or Gypsy language, transmitted to O. Salisbury Brereton, in a letter from the Rev. Dr. Douglas. Both these works contain a great number of Gypsy words. Pott however remarks that "the comparison with the Hindustani and Persian, etc., is weak."

In the work of Franz Carl Alter, "Ueber die Samskrd. Sprache," Wien, 1799, are contained some Gypsy words, extrac-

ted from Catherine's Comparative Dictionary.

"Zigeuner in Herodot, oder Neue Außchlüsse über die Acltere Zigeunergeschichte, aus Griechischen Schriftstellern, von Dr. Johann Gottfr. Hasse;" Königsburg, 1803. The author has been imitated in a still more unphilosophical spirit than his own by Vaillant, in his late work.

John Hoyland's "Historical Survey of the Customs etc. of the Gypsies;" York, 1816.† This author has made large use of the valuable work of Grellmann, adding also much of his own.

Another treatisc, "On the Similitude between the Gypsy and Hindu Languages," in the Transactions of the Lit. Soc. of Bombay, 1819, was published by Irvine—"of no special value,"

according to Pott.

The next in order of time is the remarkable work of Anton Jaroslav Puchmayer—"Romani Chib, d. i., Grammatik und Wörterbuch der Zigeunersprache, nebst einigen Fabeln in derselben. Dazu als Anlang die Hantyrka oder die Czechische Diebessprache;" Prague, 1821. This work is extremely valuable, and Pott frequently refers to it. Though I have not seen the work, the quotations often found in Pott, and the frequent references to it, amply prove the value which he set upon the labors of this learned author. There is a striking similarity between his Gypsy terms and those in my Vocabulary, so that I am induced to believe that Wallachian Gypsies must have afforded him his principal information.

"Deutsch-Zigeunerisches Wörterbuch, von Dr. Ferd. Bischoff;"

Ilmenau, 1827—a work often quoted by Pott.

^{*} Pott, p. 6.

[†] The full title of this work is given in the Penny Cyclopedia—"Historical Survey of the Customs, Habits, and Present State of the Gypsies, designed to develop the origin of this singular people, and to promote the amelioration of their condition."

"Travels in Hungary," by Bright. In this work are contained some views of the origin and language of the Gypsies. The orthography of Bright's Gypsy words differs widely from that of most other authors. Many of his Gypsy terms were collected in England, and comparisons are instituted between the forms of the language as spoken in Hungary, Spain, and England.

In the Transactions of the Royal As. Soc. of Great Britain and Ireland, vol. ii., London, 1830, is the following work: "Observations on the Oriental Origin of the Romnichal, or Tribe miscalled Gypsey and Bohemian. By Colonel John Staples Harriot, Bengal Infantry (read Dec. 5, 1829, and Jan. 2, 1830)." This work, according to Pott, is superior to every other one in English on the origin and language of the Gypsies. It gives a very plausible account of the progress of the Gypsies from India through Persia.

G. Louis Domeny de Rienzi's "De l'Origine des Tzengaris," in Revue Encyclopédique, Nov. 1832, p. 365-373; also his "Esquisse d'un Tableau Comparatif de la Langue Tzengare ou Bohémienne d'Europe, avec le Tzengare de l'Hindustan, et neuf Idiomes de l'Orient." Rienzi, as he himself confesses, was not profoundly versed in such philological studies. His work is not

of much value.

"Geschichte der Zigeuner, ihrer Herkunft, Natur, und Art, von Dr. Theod. Tetzner;" Weimar und Ilmenau, 1835. It gives interesting notices on the Prussian mode of governing the Gypsies inhabiting that kingdom, and on the laws regulating their social

position.

In 1835 was published at Erfurt, by Graffunder, "Ueber die Sprache der Zigeuner. Eine Grammatische Skizze." This work was reviewed in 1836 by the justly celebrated Bopp, in the Jahrbücher der Wissenschaftlichen Kritik, Nos. 38 and 39, and the relationship of the two idioms, Gypsy and Hindu, corroborated by the judicious remarks of this great Orientalist.* This work, together with that of Grellmann, forms the basis of the French work of Michel de Kogalnitchan, published at Berlin, 1837: "Esquisse sur l'Histoire, les Moeurs et la Langue des Cigains, suivie d'un recueil de sept cent mots Cigains."

In 1841 was published the work of George Borrow: "The Zincali, or an Account of the Gypsies of Spain, with an Original Collection of their Songs and Poetry, and a Copious Dictionary of their Language;" London, in two volumes. Borrow, while in Spain as agent of the British and Foreign Bible Society, translated a portion of the Scriptures into the dialect spoken by the

^{*} Bibliotheca Sanscrita, by Friedrich Adelung, 1837, p. 67.—Pott, i. 22.
† Vaillant is mistaken in saying that the work was published at Jassy, in Moldavia (p. 11). Pott (p. 23) remarks of the work: "The collection of words is not worthy of much commendation."

Spanish Gypsies. His work is well known, and is valuable for the historical information which it gives respecting the Gypsies in general; but its principal value is in the description of the numerous Gypsies of Spain, and in the vocabulary, the richest which had appeared up to his day. He has drawn largely from Grellmann and Marsden. To this author I shall have occasion

frequently to refer in the course of this memoir.

Besides the above works, written expressly on this subject, notices of the Gypsies and their language are to be found scattered in different works on ethnography and comparative philology. In Adelung's Mithridates, continued by Vater, are some notices of the Gypsies and their language.* In 1818 was published, at Frankfort, the work of Chr. Gottlieb von Arndt: "Ueber den Ursprung der Europäischen Sprachen." The author gives some notices of the Gypsies, and their probable origin from India and the central parts of Asia. He gives at the end of his work some words of their language, which I have inserted in notes: they seem to belong to the Danubian Gypsies.

In 1841 was published at Milan the work of Francisco Predazi: "Origine e Vicende dei Zingari, con Documenti intorno le Speciali loro Proprietá Fisiche e Morali, la loro Religione, le loro Usi e Costumi, le loro Arti, e le Attuali loro Condizioni Politiche e Civili in Asia, Africa, ed Europa, con un Saggio di Grammatica e di Vocabolario dell' Arcano loro Linguaggio." This author seems to have borrowed largely from Grellmann and Kogalnitchan, and to have had little personal acquaintance with the lan-

guage, which he terms "linguaggio arcano."

The most important work on the Gypsies is undoubtedly the German one of Dr. A. F. Pott, published in two octavo volumes, the first in 1844, the second in 1845, in Halle—"Die Zigeuner in Europa und Asien." To this work was awarded by the Institute of Paris, in 1845, the premium of comparative philology, originally instituted by Volney. It is a work of high character. showing unwearied application, and the most profound scholarship, in every department connected with its subject. Its author has collected and compared every thing written up to his time on the language of the Gypsies, so that the reader has in a single view every thing that had been gathered by many learned au-He appears to have studied the subject for a long time, and no difficulty or dryness seems for a moment to have abated the courage of this learned and indefatigable author. It is the Thesaurus of the Gypsy language, and other dialects, better able to repay so much labor, might be justly proud of a similar grammar. The work of Pott is principally directed to the language and to its grammatical construction; his notices of the

^{*} Bibliotheca Sanscrita, by Friedrich Adelung, p. 67.

Gypsies and their peregrinations are scanty and meagre. He has paid particular attention to the relation of the Hindustani and other spoken dialects of India to the Gypsy language, using as a reference the excellent work of John Shakespear on the subject.* His references to the present spoken Persian are very frequent, and often extremely judicious. The second volume contains a vocabulary, in which are inserted all the words found in the various vocabularies of the Gypsy language drawn up by preceding authors. Borrow's entire vocabulary is inserted, but no effort is made to separate what appears to be Spanish from Gypsy. Pott has had, however, the precaution to mark with an asterisk every word undoubtedly Sanskrit, and those of doubtful origin with a cross—the rest are left for farther investigation. The first volume is far from possessing the interest of the second, for the Gypsy language in its grammatical construction has lost nearly every mark of its Sanskrit character, and varies extremely in the different provinces of Europe, ingrafting upon itself very intimately the spirit and analytical character of the language spoken by the people. In this manner, the construction offers less interest than the primitive signification of the words. his grammar, Pott gives nearly every author's construction, with numerous quotations for the elucidation of the subject, which render the work extremely voluminous.

It was not till I had completed nearly the whole of my vocabulary that I obtained this work of Pott, and I consider it as a very fortunate circumstance that I had not by me such a guide from the beginning, for so masterly a hand must have kept me in the path which he had already trodden. Left to myself, with what scanty help I obtained from Borrow's vocabulary, I have searched and researched for myself, and have assiduously examined the relation of the Gypsy to the Sanskrit, setting aside every term which to me appeared of other than Gypsy origin. sequently, I have compared many of my derivations with Pott's. There is a striking similarity in both, with this difference, that I have given in many of my derivations more attention to the Sanskrit than Pott. An example the reader may see in the definition of yak, 'fire,' which Pott refers to the Sanskrit agni, 'fire,' Lat. ignis, Pol. ogien. I have referred it to the root yaksh, 'to sacrifice,' since nearly all words in Sanskrit having the consonant ksh, in passing into the Gypsy, lose the final sh, and exhibit pure k. The reader will see numerous examples of this in Section IV. There is a marked difference in our derivations of tav, 'thread,' which Pott leaves doubtful, giving the Sanskrit sthawi (a weaver)?—while I have attempted to show its connection with the Sanskrit root tap, 'to heat, to torment,' a connection which be-

^{*} A Dictionary Hindustani and English. 4to.

comes extremely probable from the occurrence of a similar word in the Persian language. Similar differences in our derivations

I shall point out in the notes to the Vocabulary.

Pott's work contains all the words of Borrow's vocabulary, which to me appears rather a blemish, as many of them are the purest Spanish. Nothing should enter into a Gypsy vocabulary but what can be proved or shown to be pure Gypsy. It is on this account that I have eschewed nearly all borrowed terms, Greek and Turkish, from my own, inserting merely a few, in order to show the manner in which such words are mutilated and distorted. Whether Pott himself had much personal acquaintance with the Gypsies, with their language and pronunciation, it is difficult to say. For nearly every thing he refers to others.

No work on the language of the Gypsies has appeared since the publication of this great work of Pott. Vaillant, before the publication of his work, had given to some of the French periodicals dissertations on the Gypsies, but they are historical and descriptive. In his large work, of which we have already spoken, and which contains everything scattered in his other treatises, he has at the end a few Gypsy words, which I have inserted in notes, and which, with slight variations, resemble those in my Vocabulary, coming as they do from the Danubian Gypsies. No confidence can be placed in his derivations, even when he tries to his utmost to arrive at something like truth, for he is as wild here as in his descriptions of the Gypsy peregrinations. I give the reader a specimen. "Ma-garu, 'âne,' mot à mot, 'longue oreille;' kar-pu, 'melon,' mot à mot, 'fruit de la terre;' kol-pu, 'tour, golfe,' mot à mot, 'rond terre;' kris'tal, 'cristal,' mot à mot, 'transparente et solide surface.'" Now magára is a Bulgarian word, signifying 'a donkey;' karpu is the Turkish karpúz—probably from the Greek καρπός, 'fruit'—a name now given to the watermelon by the Turks; kolpu is the Greek κόλπος, 'a harbor,' pronounced by the Turks kiorfúz; kristal is the Greek *gootallos. glass, ice,' etc.

I come now to my own labors, a notice of which is necessary to the understanding of the Vocabulary, and of the few grammatical observations inserted in Section V. I have remarked already, how widely the acquisition of the Gypsy language differs from that of every other language. The reader therefore should perfectly understand it, in order to judge of the accuracy of the author's observations, and the truth of every

point in dispute.

About four years ago, Mr. John P. Brown, the learned Orientalist, and dragoman of the American Embassy in Constantinople, gave me a short vocabulary of the Gypsy language, which he had collected in his excursions in the suburbs of Constantinople. Up to that time, I had given little attention to this idiom,

and knew not much of it, except what at times I met with in the course of my Sanskrit studies. Most of it had been collected from Moslem Gypsies, a few words being added by a Christian Gypsy. There was nothing in the vocabulary but the simple definitions in English. All the words, together with a few numerals, were about seventy. As the subject became extremely interesting to me, from the relationship so palpable in many words, I determined to continue the work, and to corroborate Mr. Brown's definitions by other Gypsies, adding whatever else I could obtain from other sources. After many months' assiduous labor, after repairing to different Gypsy haunts in Constantinople and its suburbs, and mingling with the people in search of more intelligent Gypsies, I collected about one hundred and fifty words. which I attempted to explain, unassisted by works on the sub-My observations were published, in the fall of 1857, in the excellent Greek periodical of Athens, the New Pandora. These studies, extremely imperfect, were praised by the learned editors, and kind words of commendation were forwarded to me by some friends and literati of Athens. All this was a farther incitement to proceed with my labors, and ever since I have been assiduously employed in collecting materials, in making acquaintance with Gypsies, and in awakening their interest for their native idiom. This has tended to flatter their vanity; and so I have been able to obtain abundant materials for a more perfect work: up to the present time they come forward with new words, frequently transmitting them to me by correspondence. These materials I kept scrupulously by me for future use, hoping to have occasion to add whatever I collected to a new edition of the Greek article. Precisely at this point of time, towards the latter part of last year, the Rev. Cyrus Hamlin, missionary of the A. B. C. F. M., offered to translate my little work into English, for the American Oriental Society. In this I acquiesced with all my heart, persuaded that this eminent and laborious friend of long years, perfectly conversant with the polished Greek of the present day, would make a faithful translation of the whole. I have reviewed the whole translation in company with Mr. Hamlin, and can testify to its accuracy.

In this manner has originated the present memoir, which is presented to the public enriched with all the additional materials collected by me since the first publication of my researches in Athens—additions which render it essentially a new work.

My first method of acquiring the language was to give a word to the Gypsies, either in Greek or Turkish, and to obtain from them the corresponding term in their language. This method, pursued for some time, is tiresome and extremely fallacious—for they may give you another word, in order to cover their ignorance, or this same word, with pronouns, in the plural, and often

united to a verb. This, at first, is extremely perplexing, and the student cannot properly understand his position, or feel any degree of confidence, until he has in some manner fathomed the depth and breadth of their brutal ignorance. They will do their best, particularly when incited to such uncouth and unknown martyrdom by the exhibition of money as a spur to their sluggish memory. They will torment themselves, look at heaven and earth, scratch their heads, or put their fingers upon their temples, to recall the lost term, which, according to their expression, is sticking at the tip of their tongue. I have frequently pitied the poor fellows, since they seemed so in earnest to satisfy my curiosity; and I have desisted from farther demands for a particular word, which they professed they knew, but could not possibly recall.

With the Moslem Gypsies I have had great difficulty, for they are fast losing their idiom, and few of the new generation know any thing of it.* The Christian Gypsies, however, still retain it, with an incongruous mixture of Greek and Turkish terms, and from them I have obtained nearly all the materials contained in this memoir. The profound hatred of the Moslem Gypsies, or rather their contempt of every thing pertaining to a Christian, inherited from the genuine Moslems, makes them shy, and very

poor guides in such matters.

This process of collecting words from single individuals soon disheartened me, on account of its imperfections, and the great difficulty of obtaining by it even a scanty knowledge of Gypsy terms. I therefore, after numerous trials, resorted to dialogues, which succeeded admirably, and which I can recommend to any individual in similar circumstances. One can hardly keep pace with their volubility. Words flow as in a torrent, while the elements and combinations of which it consists can afterwards be arranged in a systematic manner by the student, and easily elucidated one by the other. I cannot but make this remark. and say how much trouble might have been saved, had I begun with this plan, which has cleared up wonderfully all my notions and views of this very interesting idiom. I have permitted my Gypsy masters to add whatever came into their heads, in the course of the dialogue. In this manner a rich treasure of knowledge resulted from our studies.

It was my good fortune, however, in prosecuting these studies, to make the acquaintance of a Greek Gypsy, Andrea George, living twenty miles distant from Constantinople. His amiable character had induced a Greek gentleman, some years ago, to

^{*} They strive to show zeal in their new religion, and consider their vernacular idiom as partaking of christian heresy, and of course avoid speaking it as much as possible.

put him into a Greek school, where he went through the first elements of the Greek grammar. To this young man, to whom education has imparted feelings nobler than those of his fellowcountrymen, the subject became very attractive, and to his kindness I am greatly indebted for the help he has rendered me in the latter part of my studies. He has, in his short excursions to the neighboring villages, collected from different Gypsies. coming from the north of Turkey, many terms unknown to him, which he has given to me, and which I have examined and inserted in the Vocabulary. We have reviewed together all the Vocabulary, and all the dialogues, collected from different quarters, which have served as the basis of it. I have noted with the greatest accuracy his accents, and the sounds of his voice in the pronunciation of the various consonants, and I have every reason to put entire confidence in his information. It coincided with whatever I had previously collected from numerous sources. and which I continually submitted to his examination. himself was often unable to give me the desired information except in the form of dialogue, and by degrees he was induced to write for me dialogues in his vernacular idiom. In this way he acquired for himself a great number of terms, ascertained my wants, and with kindness of heart entered into my views, and has even attempted to collect whatever of his native idiom is known among the Gypsies dwelling in the villages near Constantinople, or roaming in tents, and coming from the distant plains of Bulgaria and Servia. Having become extremely interested in these labors upon his own language, Andrea still continues his observations, and submits them to me, often demanding whether such a word should be pronounced in such a manner. and not in another. He asked me once, for example, whether the word for 'he sells' should be biklél or biknél: I told him that the latter was the proper form, and that he should always avoid biklél.

In this manner have been collected and arranged all the materials which enter into the Vocabulary. There is nothing borrowed from any work on the Gypsies, and I am warranted in saying that all the terms are in constant use among the Gypsies dwelling around Constantinopie and in the Roumelian villages, up to the skirts of the Balkans. My long intercourse with them has rendered me somewhat familiar with their idiom, and in the present state of my knowledge I offer this Vocabulary as exhibiting the actual condition of their spoken language, the result of four years' constant application and study. It is my earnest hope that it may prove of some utility to students in ethnographical science, and in all those scientific and philosophical pursuits that have for their object to ascertain the true origin of tribes and nations.

In the definitions, I have often inserted quotations from my dialogues, as pronounced by the Gypsies, quotations which in numerous cases serve to illustrate the term under consideration. They are extremely important, and may serve as points of illustration to those who shall desire to make farther researches upon this interesting subject. The reader may put implicit confidence in their accuracy, for they have been repeatedly sifted and examined.

The object of this memoir is to demonstrate the relation of the Gypsy language to the Sanskrit; and in this part of my work, as I have said before, I was perfectly unassisted. What I have done I humbly submit to the public. Though persuaded of its near connection with the Sanskrit, more intimate than that of any other spoken language of Europe, I confess that I have not always succeeded in pointing out the relationship of Gypsy terms to the Sanskrit, even in cases where their structure would seem to bear an undeniable stamp of Hindu origin. But I feel no discouragement; and when I consider that our immortal Coray has been able by long and unwearied study to define and trace to the ancient language most of our pure modern Greek jargon, and thus to explain so many obscure passages in ancient Greek authors, what cannot we hope to effect by a similar process, when Sanskrit shall be better known, and its etymologies better defined? I have no doubt, as I have remarked in the Vocabulary, that, as the modern Greek has vastly elucidated the ancient, so the Gypsy, which is so closely related to the Sanskrit, will impart the same advantage to Sanskrit, when the relation of the two is fully established and universally acknowledged. It will then become evident that Sanskrit verbs, most of which remain unaltered in form in the Gypsy, but have different significations, may have originally possessed these significations. Coincidence of original meaning becomes undeniably apparent in the case of many adjectives and nouns.

As the language of the Gypsies has been thoroughly permeated by the spirit of the modern Greek and Turkish, as spoken in and around Constantinople, I have derived considerable assistance from both these languages, in elucidating many points under discussion. Pott himself often makes reference to modern Greek words, with a judgment and an accuracy worthy of all praise. The reader will see the opportunity for similar references in the course of the Vocabulary.

As to the orthography of the Gypsy language, it is well to inform the reader that I have adopted for the vowels that of the Italians, as the most perfect, and least liable to error: a should be pronounced as a in far—e, as in met—i, as in pin—o, as in no—u, as in bull. As to the consonants, I have retained the ordinary notation of orientalists, writing ch for the sound of those

letters in child, chime, Italian cima—j, which by common consent corresponds to the Sanskrit j, I have constautly written j—for example, janáva, 'I know' (written by others djanáva)—as better suited to English readers. The strongly aspirated Sanskrit palatal I write chh, the guttural kh, and the aspirate h. The Gypsies in these countries have no sound corresponding to that of the English th in this, that, Greek δ . The lingual and palatal sibilants of the Sanskrit I have represented by sh and ϵ ; to both belongs very nearly the same pronunciation, that of the English

sh, as in shall, shore.

There is such a softness in the pronunciation by the Gypsies of some consonants, that I am at a loss how to write them. word puró, 'old,' is au example. It is not puró, nor furó, nor phuró, nor pfuró. I cannot pronounce it; the sound is like blowing from the mouth, as in blowing out a candle. As to writing or expressing it by Roman characters, there is a difficulty similar to that which Europeans experience when trying to represent the ghain of the Arabs. This word by some is written puró, by others furó; still, to me, all are wrong, and do not give the true pronunciation of the word. But I have preserved furó, generally adopted by others. The same difficulty occurs in the pronunciation of mindó, 'mine,' which at times is heard as though pronounced minró. I have pronounced it in both ways, in the hearing of Gypsies, and they have made no remark. But I could not pronounce it as they do themselves. Their manner is like an imperceptible breath, passing upon a word mindró, so gentle that both consonants are heard, while one is at a loss to say which predominates. It must be heard to be appreciated. So with their pronunciation of soft k—the Turkish kef—which at times appears like a pure t, particularly when in the middle of words. Utkiaváva, 'I mount, I hang,' at times appeared to me as though it should be written utiaváva, and at times ukiaváva; so gentle is the sound of k in similar cases, that with some Gypsies it is not heard at all. I have followed the more general usage, and have often been guided by the agrist in determining the proper orthography of the present of the verb. These delicacies in the pronunciation I have noted in the Vocabulary. Some Gypsies, and particularly the Moslem, pronounce the gently aspirated p as a pure p, saying always puró, 'an old man.' The reader will see farther notices of the pronunciation of the consonants in Section IV, where their mutation in passing from the Sanskrit to the Gypsy language is spoken of.

I have pointed out all the Persian words found in the idiom, as they are an important element in the history of the Gypsies. It is evident that a people using so many pure Persian words must have formerly had close connection with the Persian people. They could not have borrowed them from the Turks, who

make no use of these particular words. The reader will observe

them in their proper place.

Less interest is attached to the Slavonic terms, for the Gypsies are still found scattered among the numerous Slavonic tribes of the banks of the Danube.

All Mr. Brown's terms are inserted in their proper places, and marked "Br.," to distinguish them from Borrow's, marked "Bor."

Mr. Hamlin's remarks upon the Armenian language I have inserted in notes, and marked "Tr."

SECTION III.

VOCABULARY.

Α.

To abandon—mukáva.—This is probably connected with the Sanskrit root much, 'to release, to let go.' The change of a palatal into a guttural, and vice versá, is common in all languages. Kamukáv tút, 'I shall leave thee;' nápalal mukélamun bizoraló, 'afterwards it leaves me weak.'

To be ACQUAINTED with—pincharáva.—This seems to be a compound verb, formed from the Sr. root char, 'to go, to proceed,' and the particle vi, which, joined to the verb, imparts to it in the causative the meaning of 'to pass back and forth in one's mind, to consider, to meditate upon.' Pincharáva shows the addition of a euphonic n after vi, and the change of v into p, so common among the Gypsies. Méya pincharávales, 'I also am acquainted with him:'—though transitive in form, it has here a neuter signification.

AFAR—dúr; Bor., dur.—From the Sr. dûra, 'distant.' Ketî dúr isi chin ti Silivri?' 'how far is it to Silivria?' Durâl, 'from a distance?'

durál allián? 'have you come from a distance?'*

Affirmation— $v\acute{a}$; Br., nangar; Bor., unga.—I think there is an error in the definition of Mr. Brown, as it seems to me impossible that such an affirmative particle should have the negative na in its first syllable. Still, it is valuable as tending to elucidate Borrow's word. Va is the Sr. indeclinable $v\acute{a}i$, a particle of asseveration or confirmation. The Gypsies in these quarters know of no other particle, and will acknowledge no other, but most of the Moslem Gypsies use the Turkish or Greek. Borrow's form, although to appearance obscure, may be referred to a pure Sr. origin; namely, to the word $ang\acute{a}$, itself also an asseverative or assenting particle, 'yes, truly.'

All—sarró, sarvó, sárrore, sávvore, sárvolo;† Br., sarvillee; Bor., saro.
—Almost unchanged from the Sr. sarva, 'all, the whole, entire.' As concerns the final syllables lee and lo, I do not know whence they come. Te dikél sarré, 'should he see all;' sarré o manushé isi khokhavné, 'all men are liars;' sávvore o róm, 'all the Gypsies;' ketí isánas sávvore? 'how many were you all?' sarvénghe te penésles, 'to declare

^{*} Armenian dar, dara, in composition; as daratsainel, 'to sound abroad.'—Tr. † "Saré, 'tous.'" Vaillant, p. 456.

(lit. 'to say') it to all.' It is a very common word, and understood by

all the Gypsics, wherever they are to be found.

ALMS—lachipé; Bor., lachipén.—This is an abstract noun, from lachó, 'good,' and the common suffix pe or pen; it signifies 'goodness, benevolence.' It is used, however, by the Gypsies, in the sense of 'alms.' They have followed in this respect the usage of the Greeks, who frequently, in the place of ἐλεημοσύνη, 'alms,' use the term ψυχικόν, 'contribution for the salvation of the soul.' Compare Turk. sadaká, 'alms,' lit. 'goodness, rightcousness.' Kamáva to lachipé mó chavó, 'I desire thy happiness, my child.'

ALWAYS—ghéles.—Possibly connected with the Sanskrit kála, 'time.'

And—tá, té.—This conjunction may be identified with the Sr. tu, in preference to cha, which is more usual among Sr. authors. The following colloquial phrases amply illustrate its signification. Tá é chavén, 'and the children;' tá penéna, 'and they say;' tá nú penéna chachipés, 'and they do not speak (say) the truth;' tá isi kodróm but chiká, 'and there is in the road much mud (muds).' In the following examples it can be rendered 'also': teréla ta yek dúlon (Gr. dúvlov), 'he has also a servant;' teréla ta khelúa, 'it has also figs;' kamésa tá mól? 'dost thou wish also wine?' This conjunction is frequently pronounced te, particularly when it is not at the beginning of a sentence.

Anvil—amúni; Br., ammunee; Bor., amiñi.—From the Greek ἄκμων,

'anvil,' pronounced by us now αμμόνιον and αμμόνι.

Apple—papai, hapai.—This term, like many other denominations of plants and fruits, is obscure, and difficult to be explained.

Armful—angáli.—This is the Greek term ἀγκαλιά and ἀγκάλη, meaning 'whatever can be held between the arms.' Cf. ἀγκάλη χόφιου

(Xenophon). Yék angáli chár, 'an ἀγκάλη of hay.'

To be ASHAMED—lajáva; Bor., lacha.—From the Śr. root lajj, 'to be shamefaced or ashamed.' This is the term to which the Gypsies of Spain attach so high an importance, (Bor., ch. vii.) meaning by it as a substantive 'the unblemished chastity of the unmarried female.' With the Gypsies in these countries the signification of the word is simply 'shame,' and they translate it by the Greek ἐντζοπὶ, or the Turkish 'ayb, 'shame.'—Lachano, 'shameful.'

Ashes—práhos.—This is the Slav. práh", 'dust.' Among the Bulgarians, however, the term pepál is in common use for 'ashes,' from the ancient Slav. pepél", 'ashes;' Gr. παιπάλη, 'the very finest of flour,' and 'whatever is rubbed to extreme fineness.' Kaló práhos, 'black ashes;' e bovéskori práhos, 'the ashes of the baker;' ketí práhos kamésa? 'how much ashes dost thou wish?' ketí práhos resélatut?

'how much ashes suffices thee?'*

To ASK—pucháva.—From the Sr. root prachh, 'to ask, to inquire, to desire to know.' The liquid r has been dropped, as in other similar examples (Section IV). This verb is at times pronounced pacháva and pecháva. Sóske puchésa mánder? 'why dost thou ask (from) me? kapucháv léstar, 'I shall ask (from) him;' tá té pucháv léstar, 'and that I may ask (from) him.'

^{*} Práchos (aréna), and again, pracos, "staub." Pott, ii. 361.

Ass—khēr; Br., kher; Bor., gel, guel, jeroro—fem. kherní; Bor., jeni, jerini.—The Sr. hara, from the root hṛi, 'to bring, to bear,' signifies 'bearer,' and secondly 'the ass,' as the Turks call the ass merkeb, from the Arabie root rakaba, 'to bear.' Thus hara signifies 'beast of burden' in general, and, by secondary meaning, 'the ass,' which, through all the East, is the burden-bearer in domestie works. This term is also written khara: compare Zend khora and Pers. kher, 'an ass.' My term kherní is 'the female ass.' Those of Borrow are of different provinces, but all of the same origin. Sigó khér, 'a swift ass;' tumarí kherėskoro i zén chorghiá, 'your ass's saddle they have stolen;' terèla pánj khér, 'he has (owns) five asses.'

To AWAKE—jongava.—The Sr. root jāgṛi is 'to awake, to be awake or watchful.' We shall see in the next Section that the r of the Sanskrit, particularly when in composition with other consonants, is frequently dropped, as in this case. Jangaváva, the passive form, is 'to be awaked;' jangavdó, 'he is awake.' It corresponds to the Turkish oyanik, 'awake, a man of talent;' Gr. ἔξυπρος. Janganilióm (pass.

aorist), 'I have awaked;' janganiló, 'he is awaked.'

Axe—tôver, tovel.—This word is pronounced in both ways by many Gypsies, for the liquids are often commutable. It is a pure Persian word, taber and taver, 'the two-edged axe used in felling wood.' Toveréskoro, 'one who uses an axe,' or 'one who makes and sells axes.' The Turkish is battoji.

B.

BACK—dumó.—This is a frequently used term among all the Gypsies, for the hinder part of the trunk, extending from the neck to the os sacrum. The Greeks now call the body *voutor or *vout, diminntive of *voutos, 'the trunk of a tree.' May not, then, dumo be compared with Sr. druma, 'a tree,' which, by dropping the liquid r, has become dumó? To me this origin appears very probable, particularly upon comparing it with dudúm, 'a gourd,' in which the same word druma appears to exist.

Bad-górko.—This is the usual adjective used in opposition to lachó, 'good.' Górko manúsh, 'a bad man;' o rashái maréla e górke chavén, 'the master beats the bad ehildren;' gorkipé, 'badness, wiekedness.'

Bald—pakó.—The Sr. verb pach means 'to mature, by cooking or ripening;' and derivatives from it signify 'maturity, suppuration,' and even 'gray hairs,' as the maturity of age. The Sr. word paka has all these significations, and the same term is by the Gypsies referred to baldness, as an attribute of grey hairs and old age. Pakó isí, ná teréla bál, 'he is bald, (and) has no hair.'

To BAPTIZE—boláva.—This word of the Christian Gypsies, which, like all the rest of this class, is of peculiar interest, seems to belong to the Sr. bul, of the 10th class, 'to sink, to dive and emerge again.'

In embracing Christianity, the Gypsies must have been at a loss, at times, to express by appropriate terms the new order of things which they eonstantly saw before them. They have done, in this matter, what other nations in embracing Christianity had done before them. The Slavonians call the cross krést", undoubtedly from the Greek

χριστὸς: and say krestáyu, 'I baptize,' analogous with the English "I christen," i. e. 'I baptize, I make one a Christian.' Have not most of the nations who received the blessed tidings of Christianity from the Greeks adopted also Greek terms? But whenever words were found in the idiom of the Gypsies capable of expressing the new idea, they would naturally be adopted by them. We shall see another example in the name of the cross. Βαπτίζω, the transitive of βάπτω, meant originally 'to color by dyeing.' The word to this very day is used for 'dveing, painting, besmearing the face with rouge,' etc.: it is a neuter and transitive verb. As color was transmitted to cloth by immersing it in water, the word very naturally came to mean 'to immerse in water.' What difficulty then had the Gypsies in giving to this act of Christianity the word which corresponded to the Greek? Those Gypsies unacquainted with the word use vaptizáva, 'I baptize,' the Greek βαπτίζω. Boláva e chavés, 'I baptize the child;' bolipé, 'baptism;' bolavdó, 'baptized;' bibolavdó, 'not baptized.'

BAREFOOTED—pirnangó.—A compound word, pir, piró, 'foot,' and nangó, 'naked;' literally 'naked-footed.' In another part of the Vocabulary, I treat of the etymology of piró, pirnó, the Gypsy terms for

'foot.'

Barley—jov.—This is the Persian jav, 'barley,' which the Gypsies have borrowed directly from the Persians. Sr. yava, 'barley.' The Persian form of this term is undoubtedly from the Sanskrit, as the Persian language very generally changes the Sr. y into j: compare jugh, 'yoke,' Sr. yuga; javan, 'young man,' Sr. yuvan.

BASKET—kóshnika; Br., sevlia; Bor., cornicha.—This is a Bulgarian word, from the Slavonic kosh' and kósnitza, 'a basket.' The origin

of Mr. Brown's term is unknown to me.

BATH—tattó, bágnia; Bor., tati.—Borrow defines this word "fever," Sp. calentura. Although it has not the signification of 'bath' in his vocabulary, yet the meaning which he gives may serve to elucidate my own. From the Sr. root tap, 'to heat, to burn,' is formed the part. tapta, 'hot, bnrning,' and this, by the customary change of p to t, becomes tatta, just as the Italians pronounce the Latin aptus "atto." The Arabs, from the word hamma, 'to heat,' have formed hammâm, 'bath,' and humma, 'fever.' This word, as well as rat, ratti, 'blood,' should be written with tt, tattó. Some Gypsies use the word bágnia, It. bagno, a common word in these countries for 'bath.'

Bean—bópi.—A Bulgarian word, bop, 'a bean,' but particularly the species called the Egyptian: Gr. *ov**ta, Turk. baklá.—Pl. bópia.

BEAR—richini.—As numerous Gypsies in Roumelia and the Danubian provinces gain their livelihood by exhibiting bears in the streets and public places, it is natural to suppose that this term would be a common one among them all. To me it appears related to the Sr. riksha, 'a bear,' and hence to the Gr. Agaros, Lat. ursus. Should this derivation be found to be true, it will be one of the rare examples of the change of ksh into ch, as I shall have occasion to show in the following Section.

To BEAT—maráva.—This verb seems to be of the same root with the verb meráva, 'I die.' In order to distinguish it from meráva, it is

always pronounced maráva, and the aor. marghióm. It means also 'to pound, to grind, to bruisc.' O rashái maréla e chavén, 'the teacher beats the children;' marélala? 'does he beat her?'

Beautiful—sukár; Br., shuká; Bor., jucal.—These words are from the Sr. sukara, compounded of the prefix su, 'well,' Gr. ευ, and the adjective kara, 'making,' Gr. ποιὺς, from the root kri (Lat. creo), 'to do, to make.' Kara, in Sanskrit as well as in Persian composite words, indicates action; as sukara, 'the well-doer, the generous bestower,' and hence 'whoever is beautiful in soul or body.' To Mr. Brown's word, shuká, a final r should be added; in Borrow's, the final r is changed to l. The fem. jucali is the Sr. sukarâ. The Gypsies form all feminine nouns in i, as we shall see in speaking of the nouns (Section V).

Because—sostár.—Appears to be the pronoun so, with the ablative particle tar (lit. 'from which'), 'on account of;' precisely as the Greek διότι, composed of the prep. διά, and the rel. pron. ὅ,τι; also ὅθεν, rel. pron. and the ablat. Θεν. Sostár isás kelipé, 'because

there was a dance.'

To BEGET—benáva.—This term, like its cognate ben, 'birth,' I have not been able to refer to any Sr. root, with any degree of satisfaction. The term is common to both sexes, in man and animals. I romní benéla, 'the woman begets,' i. e. 'produces, brings forth;' gurumní amarí benghiás yék moskáre (Gr. μοσχάφιον), 'our cow has brought forth a calf;' i chuklí benghiás pánj rukoné, 'the bitch has begotten

(brought forth) five whelps.'

Behind—palál.—This evidently is the Sr. para, 'distant, remote, after.' Here, as in many other adverbs of location, the term is in the ablative form, a very favorite one with the Gypsies. According to the formation of other similar adverbs, it would be, in its simple form, pal: as avry, 'out,' avryál, 'from the outside,' Gr. ¿¿wðer; andré, andryál, and andrál, 'from the inner side.' It is often to be heard united with the comparative particle po, as popalál, 'still more backwards.' Lávales palál, 'I take it back;' palalutnó, 'the next in order, the second;' polaléste, 'farther back;' napalál, 'afterwards;' kúna chinésa bar, na palalutné ghén, 'when thou throwest a stone, the afterwards (i. e. 'the consequences') consider;' pelióm palál, 'I fell behind,' i. e. 'I followed him.'

To believe—pakiáva.—This verb I refer to the Sr. root paksh, 'to take a part or side.' Pakiáva ki aneká isí, 'I believe that it is so;' na

pakiáva ki muló, 'I do not believe that he died.'*

Bellows—pishót; Br., pishata.—Mr. Brown's word is in the plural form. Belly—bor; Bor., pos, po.—This is one of the many terms of the Gypsy language, the derivation of which is not clear to mc. Terávas dúk mé poriáti, 'I had pain in my belly.'

^{*} Pott (ii. 346) writes the word $pat\'{av}$, and derives it from the Sr. prati+i, 'confidere.' The Gypsies here pronounce it as I have written it. I have frequently heard it. The difference, however, may have been occasioned by the pronunciation of the consonant t, which with the Gypsies is often a soft k. A similar commutation is often to be heard among the Greeks, particularly in the island of Lesbos (Mitelene).

Between—maskaré.—This term comes from the Sr. madhya, 'middle, intermediate,' Lat. medius, Gr. μέσσος, Slav. mézdyu, 'between.' Maskaré to dúi kér, 'between the two houses;' maskaré to dúi drom, and maskaré dúi dromende, 'between two roads;' maskaré dúi manushénde, 'between two men;' maskarál, 'from between,' Lat. ex medio, de medio, Mod. Gr. ἀπὸ τὴν μέσην.

Bird-chirikló; Bor., chiriclo.—The Sr. chiri, 'a parrot,' is the only word to which can be referred this Gypsy term. Probably the term had also the more general signification in the Sanskrit, for we have in the present spoken language of the Hindus chiriya, for 'birds' in general. The signification of this word among the Gypsies is extremely vague; it is applied to all the feathered tribe. I have heard it used of quails, partridges, pigeons, etc. Never have I been able to ascertain any term for particular species of birds or fishes. The Gypsies call them by their Greek or Turkish names.

BIRTH—ben.—See to BEGET.

BITCH—chukli.—This is the fem. of chukél, 'dog,' by the addition of i, the usual affix of Gypsy feminine nouns. The e of the final syllable is always rejected: chukél, chuk(e)lí. Amarí chuklí, 'our bitch:' katur kinghian ti chuklia? 'whence didst thou buy thy bitch?'

To BITE—dantáva, dantiláva.—Both these verbs are in use: they have been formed directly from the Sr. noun danta, 'tooth' (see TOOTH). The second, dantiláva, is a compound verb, formed of danta and the verb láva, 'I take,' both of which are separately explained in the present vocabulary. Unlike its mother tongue, the Gypsy language is not generally fond of compound words. To o chukél danghiánles, 'and the dog bit him.'

BITTER-kerkó.—This is the Slav. górkie, 'bitter,' in general use among the Bulgarians, from whom the Gypsies have received it. It is a common term among all the nations that speak the various dialects of the

Slavonic.

Black-kaló (fem. kalí);* Br., caló; Bor., caló, callardo, caloro.-These terms are derived from the Sr. kâla, 'black, of a dark color.' The second of Borrow is a Spanish form. Compare the Slav. kalénie, 'color, dye.' The reader will observe that the Turkish Gypsies have preserved many words of their mother tongue pure from all foreign intermixture. Isi kali, 'she is black;' kalé romá, 'black men:' kaló is used for 'a negro;' kali, for 'a negro woman:' kaló manró, 'black bread.

Blacksmith—mastér; Br., masteros.—Mastér is a word very generally used by all classes of people in Constantinople, from the vulgar Italian maestro, to designate 'a chief workman,' or artist of any profession: Turk. and Persian ustad. Many Gypsies, in place of this term, use their own shustiréskoro, 'iron-worker' (see IRON).

BLIND—koró.†—Compare the Sr. giri, 'a certain disease of the eyes;' girikana, 'one blind from the disease giri.' This word is used at times by the Gypsies as an imprecation: o devėl te koró kerėlman,

'may God reduce thee to blindness!'

^{* &}quot;Cali, 'noir et beau.'" Vaillant, p. 179.

BLIND MAN—tam-manúsh.—I give here this second word for 'blind,' as it is applicable only to the human race, whilst the former, koró, is used, as in other languages, for inanimate objects. It is a compound word. Tam is from the Sr. root tam, 'to be senseless, to be dark.' The derivatives of this root signify 'blindness, bodily or mental, gloom, perplexity,' etc.

Bloon—ratt;* Bor., rati, arati.—From the Sr. root ranj, 'to color, to dye' (Pers. renk), comes the participle rakta, 'colored, dyed, red,' neut. raktam, 'blood.' In the above Gypsy terms, the k of the Sr. is changed to t, for the sake of euphony; like the Italian practico from the Latin practicus. Dukháva bút e rátt, 'he likes much to bleed'

(lit. 'he likes blood').

To Born—taviáva, tapiáva.—By the transmutation of the labial p into its cognate v, this Gypsy verb is easily referred to the Sr. root tap, 'to heat, to burn,' and, in the Gypsy language, 'to boil,' as an effect of fire.

Bone—kókkalo.—This term is common to all the Gypsies. I have never been able to ascertain any other denomination for bone, even among the Moslem Gypsies. It is the common Greek κόκκαλον, derived from κόκκος, 'the kernel of fruit:' κοκκαλιάζω is 'to become hard,' and is a very common term among the Greeks now.†

Bosom—kolin.—I leave to others to determine whether this word can be referred to Sr. kola, signifying, among other things, 'the bosom, the lap, embrace.' The names of parts of the body in the Gypsy lan-

guage are often extremely difficult and dubious.

Bowel—bukó; Bor., porias.—Bukó may be referred to the Sr. bukka and bûkka, both meaning 'the heart,' in the same way as the Greeks called σπλάγχνον every internal organ of the body, and often, to this day, the common people call the stomach and the bowels καφδία. Borrow has the Sr. puritat, 'an entrail, a gut,' which seems in fact to furnish the proper etymology of the word used by the Gypsies of Spain.

Boy-CHILD-chavó;† Br., schago; Bor., chavo, pl. chai.

Girl—chái; Br., schay; Bor., chavory.—The Sanskrit has more than one term to which the above words can be referred: tuch, tuj, and toka, 'progeny, children,' câva or câvaka, 'the new born of any animal.' The Gypsy word I have always heard pronounced chavó. Some of the Moslem Gypsies reject the v, and pronounce chaó. Mo chavó, 'my child;' dúi chavén teráva, 'I have two children;' rovéla ani khurdó chavó, 'he cries like a little child;' o rashái maréla e górke chavén, e laché chavén na marélalen, 'the teacher beats the bad children, the good children he does not beat;' te chavénghe, 'to thy children;' astarghióm e chavés, 'I caught the child;' e chavéskoro náv só ist? 'what is the child's name?' tá e chavén, 'and the boys' (acc. case); teréla chavén? 'has he (or she) children?' mi chái, 'my girl;' teréla yék múrs, yék chái, 'he has one boy (and) one girl.'

^{*} Armenian ariune, 'blood.'--Tr.

[†] This term should always be written with double x-xóxxalor.

^{# &}quot;Trhai, 'jeune homme.' " Vaillant, p. 457.

Brain—goti.—Used by the Gypsies for 'brain' and 'mind.' Terávales me gotiáte, 'I keep it in my mind,' i. e. 'I remember it.' It may be referred to Sr. goda, 'the brain,' or to godhi, 'the forehead.' From this word is formed gotiavér, 'having a brain, intelligent.' 'Brain' for 'intelligence' is very common also among the Greeks. "Executedor, 'he is wise,' lit., 'he has brain.' Mi goti, 'my mind;' até alló amaré gotiáte, 'there came to our mind,' i. e. 'we were reminded;' té n'avésa me gotiáte, 'should I not bring to my mind.'

Brave—múrs.—This term is often used as equivalent to the common Greek πάλληξ and παλληκάφιον, 'a brave, one endowed with courage;' Turk. yiyit, Pers. pehlivan. The Gypsy term probably originates from the Sr. mri, 'to die,' and its participle mrita, 'dead, mortal,' Gr. βφοτὸς, ψτητὸς, of which we shall speak in elucidating the verb merάνα, 'to die,' so common in all the Indo-European languages. Compare Slav. muzz, 'a man, a male.' The Gypsies frequently use the term for the male sex, whenever they intend to indicate manliness and courage in the person spoken of. It properly signifies a person of courage, but who makes no ostentatious parade of it. It is used also for 'boy;' teráva dúi chavén, yék chái, yék múrs, 'I have two children, a girl (and) a boy.'

Bread—manró, mandó, marnó, marlý; Br., marú; Bor., marno, jumeri, tató.—Cognate with the Sr. marára, 'granary or storehouse,' where all kinds of produce, and whatever is used for food in general, are kept. Borrow's tato is evidently the Sr. tapta, participle of tap, 'to heat, to burn,' and consequently signifies that which is heated or cooked, as the Lat. panis biscoctus, Fr. biscuit, Gr. ἄσιος δίπυφος, i. e. 'bread subjected to two fires.' Manró khandí kháva, 'a little bread I eat;' kaló manró, 'black bread;' manréskoro, 'a baker,' or 'one who

sells bread.'

To BREAK—pangáva.—Sr. bhaāj, 'to break.' Panghióla, 'it broke,' aor. of the mid. voice; panghiováva, 'I have been broken.'

Breast—chuché, chuchí; Bor., chucha.—From the Sr. chuchi, 'breast,' (Gr. μαστὸς); chuchuka, 'a nipple.' Chuchí dávales, 'I give it the breast;' piéla chuchí, 'it drinks the breast;' ná léla chuchí, 'it does not take the breast;' chuchía dukéna, 'the breasts pain.'

Bridge—purt.—From the Sr. root par or pri, 'to pass over, to go to the other side.' The Greek, from περῶ, περώω, has περάτης, 'one who passes to the other side,' and πέρα, 'on the other side.' Compare

Zend peretus, 'bridge.'

To BRING—anáva.—Perhaps from the Sr. root nî, 'to lead,' with the prefix â, 'hither, to.' It is extremely common among the Gypsies. Its aorist is anghióm, 'I brought;' fut. kanáv, 'I shall bring.' Kutár anghián te romniá? 'whence didst thou bring thy wife?' so anghián?

· 'what didst thou bring?'

Broad—bugló.—This adjective, of which the derivation is unknown to me, means 'broad, wide, expanded:' fem. buglí. Bugló dróm, 'wide road.' It serves to form the verb bugliováva, 'to expand, to stretch, to put out clothes to dry,' probably from the custom of stretching clothes on the ground to dry them. Bugliarghióm e yísmata, 'I have spread the linen (to dry).' Bugliováva means also 'to widen, to scatter;' Gr. σχοφπίζω.

BROTHER—pral, plal; * Bor., plan, plano.—

Sister—pen; Bor., plani.—Except for the first of these forms, one would hardly believe them to be the Sr. bhrâtri, the correlative of so many Asiatic and European synonymes: in the Zend brâtar; Pers. berader; Lat. frater; Gr. qqâtwq; Goth. brothar; Germ. bruder; Eng. brother; Slav. brash; Russ. brat; Bulg. vrat. The Turkish Gypsies have fortunately preserved the word nearly like its archetype, to which we can thus refer the three forms of Borrow, which are undoubtedly from bhrâtri, metamorphosed according to the natural interchanges of letters. Plal approaches the Lithmanian brolis, 'brother' (Bopp). Pen and plani are from the same Sr. original. The Hindus use another word, svasri, 'sister,' Lat. soror. Amaré peniá, 'our sister' (acc. case); te praléskoro náv? 'thy brother's name?' keti pralén terésa? 'how many brothers hast thou?' me praléskoro keréste, 'in my brother's house.'

Buck—búzos.—Related to the Sr. paçu, 'an animal in general, a beast, a goat.' A diminutive form of this term is buznó, buzní, 'a she-goat.' Chungali buzní, 'a good-for-nothing she-goat;' buznoró, 'kid;' ker-

ghiás dúi buznoré, 'she had (lit. 'begat') two kids.'

Bulgarians—dás.—This appellation is given by the Gypsies to the numerous Bulgarians living among them, or coming from Bulgaria in the summer season to till the lauds of the Greek and Turkish landholders. The Bulgarians are found in vast numbers on the lauds of Roumelia. They are called Βουλγαφου by the Greeks, Bulghár by the Turks, and Bulgar by themselves. To them this appellation das is utterly unknown. It is, however, extremely interesting, as being, perhaps, a reminiscence of the words Dacian. Dashái, pl. of dás; dasni, 'a Bulgarian woman;' dasoró (pl. dasoré), 'a young Bulgarian;' dasnióri, 'a young Bulgarian girl;' dasikanó, adj., 'Bulgarian;' dasikanú chip, 'the Bulgarian language;' dasikanés, 'in a Bulgarian manner'—Bouλγαφυσι.

To Burn—tapiáva, tapiováva.—In speaking of BATH, I have referred to the Sr. verb tap, 'to burn, to be hot.' It is only here and in taviáva,

'I boil,' that we meet it as a verb, used as tap is in Sanskrit.

Business—puti, buti.—This term, in frequent use among all the Gypsies, I have rendered by the term 'business' in English, in prefetence to any other. It is the Greek δουλεία, 'service, work, business;' the use of which may be illustrated by a few colloquial expressions: thus we frequently say, ἔχω δουλείαν πολλίν, 'I have a great deal of business;' εἰς τίνος δουλείαν εἶσαι? 'in whose service art thou?' The Gypsy word seems to be related to Sr. bhûti, primarily 'being, existence,' but ordinarily meaning 'prosperity, success, power:' the Gypsies have made it mean 'work, labor,' as what is necessary to the enjoyment and preservation of one's life, or the acquisition of wealth and pleasure. Bhukti, 'eating, possession, fruition,' from bhuj, 'to eat,' does not appear to me to have any connection with this Gypsy term. Siklilián nevé putiá? 'hast thou learnt (any) new business?' kapichaváv tút tí pólin (πόλιν) yék putiáti, 'I shall send thee to the city for (one)

^{* &}quot;Prales, 'frères.'" Vaillant, p. 456.

business; 'teráva bút putiá, 'I have much business.' Putí (pl. putiá) is also applied to the implements of work. Déman me putiá, 'give

me my implements.' Butiákoro, 'a day-laborer.'*

To buy—kināva.—This verb I refer to the Sr. root krî (pres. krināmi), 'to buy, to barter, to exchange.' It is a striking example of the unquestionable relation of the Gypsy and Sanskrit idioms.† The r has been lost, as in many other like cases (see Section IV). With vi prefixed, krî means 'to sell.' so also among the Gypsies, bikināva or biknāva means 'to sell.' Kinghióm yék grást, 'I bought a horse;' kārin kinghiān té chuklés? 'when didst thou buy thy dog?' isās léskoro, mēya kinghiómles, 'it was his, and I bought it.'

C.

Cabbage—shah; Bor., chaja, resis.—This may possibly be the Sr. çâkha. 'plant,' limited by the Gypsies to signify 'cabbage,' in like manner as by the modern Greeks the ancient term λάχανον, 'vegetable.' This conjecture is strengthened by the analogy of Borrow's term resis, which we shall have occasion to explain in speaking of VINEYARD: applied in former times to savory substances in general, it has come to be limited exclusively to the vine by the Gypsies of Turkey, and to the cabbage by those of Spain.

CACARE—khiáva, khliáva.—The verb is pronounced in both these ways. Fut. kamakhliáv, 'I shall void, cacabo;' khlendó and khendó, 'cacatus;' khlenghióm, 'I have voided.' The origin of this term is

unknown to me.

CANE-ran.-Of uncertain etymology.

Carriage—vordón.—This term is intimately related to beró, 'a sailing vessel,' which we shall note in defining ship. Both seem to belong to the Sr. root bhri, 'to carry, to bear.' Vordón I have heard used

at times for 'a pack-horse.'

To be CHEATED—khokhávniováva.—Compound verb, from khokhavno, 'a liar, one cheated,' and aváva. Te dikél sarré o manúsh nána khokhávniovél, 'were he to see all (i. e. 'every thing'), a man would not be cheated.' For a clear understanding of these compound verbs, the reader must examine the explanation of the component parts of the verb, in their respective places. Khokhávniovélman, 'he cheated me.'

Cheese—kerál.—The Sr. kshîra is defined 'water, milk,' and from it is derived this Gypsy term. The compound consonant ksh, as we shall have occasion to show in the next Section, is constantly changed to the simple k. Kotór kerál, 'a little cheese;' ké o yavér kerásales kerál,

'and the remainder (i. e. 'milk') we make cheese.'

To CHEW—chamkeráva.—This is a compound verb, composed of cham—Sr. cham, 'to eat, to drink, to take any thing into the mouth as food'—and the Gypsy verb keráva, 'I make, I do,' from the Sr. kri, 'to make,' which we shall explain in speaking of the verb to MAKE.

Chicken—chavri.—This is the usual Turkish yavri or yavri, 'the young of any animal;' Gr. νεοσσός.

* Pott proposes vritti as a probable origin of this term.

[†] The Armenian kunel, by change of r to n, may be from this root.—Tr.

Child—rakló; fem. raklí, 'a female child, a daughter.'—This term, though frequently confounded with chavó, 'a boy, a child,' means properly 'the little one,' to mixoù of the Greeks. Teréla panjé raklén, 'she has five children;' yavré raklénja, 'with other children.' It is used

often for 'the child at the breast, the babe;' Gr. μωφον.

Christmas—khristunė.—Altbough I have made particular inquiries after terms of a religious character in the native Gypsy language, I must confess that very few are to be found. I have noted in other parts of the Vocabulary such as are of pure Sr. origin. The rest are from the Greek. Christmas, in modern Greek, is called τὰ χριστόυγεννα (Χριστοῦ γέννησις), i. e. 'Christ's birth,' from which has been formed this Gypsy word, with the accent on the final syllable.

Church—karghiri; Bor., cangri.—These two words are of European origin, from the Gr. ἐκκλησία, and κυρίακὸς οἶκος; Germ. kirche, Eng. kirk and church, are from the latter. The Latin nations have prefer-

red exxlyota; It. chiesa, Fr. église.*

CLEAN—shuchó, shuzó.—The Sr. adjective cuchi, from the root cuch, 'to be pure or clean,' means 'white, pure,' etc. All the numerous derivatives from this verb have the same idea of cleanliness, physical or mental. By some Gypsies the word is pronounced shuzó; shuchó, however, is the more common pronunciation. Shuchipé, 'cleanliness,' is formed by the addition of the usual particle pé. Shuchi romni, 'a clean woman;' shuchó chavó, 'a elcan child.'

To CLEANSE—kosháva, gosháva.—The signification of this term is 'to make clean, either by rubbing, washing, or sponging.' The Greeks now use the word σπογγίζω, 'I clean,' from σπόγγος, 'a sponge.' Its etymology is obscure. Aor. koshlióm, 'I made clean, I cleaused.'

- CLOTHING—páta; Bor., plata.—This term I derive from the Sr. pata, pati, patia, etc., all meaning 'cloth, colored cloth, a garment.' The Gypsies of Spain, for euphony's sake, have inserted an l in the first syllable. The word, pronounced patané by some Gypsies, is by them applied to the bands and various pieces of cloth with which babes are swathed.
- Coal—angár; Br., anga; Bor., langar.—This is the unchanged Sr. angâra, 'coal.' Borrow adds an initial l by mistake; or, more probably, it is a fragment of the article el, which the Spanish Gypsics have universally adopted. The Gypsy language suffers what many others do, sometimes cutting off from, and sometimes adding to, the most common words: as Nάξος (the name of the island), pronounced now 'Αξία; εἰς τὴν πόλιν ('to the city'), Turk. Stamboul; European Salonica for Thessalonica; Eng. dropsy for hydropsy (εδοωψ). Angaréskoro, 'a collier, one who sells coals.'

Cock—basnó, bashnó; Bor, basnó.—Tbis word, though apparently more changed than many others, I am inclined to refer to the Sr. pakshin, 'fowl, bird,' from paksha, 'wing, feather.' The interchange of the consonants is natural. O bashnó kaléskoro isi? 'the cock, whose is it?' e basnéskoro, 'of the cock;' e basnéngoro, 'of the cocks.'

^{*} The Armenian word for church is yegeghetzi, which is exxhasia, transformed to accord with Armenian rules of euphony, and shows us how strangely a word can be modified in passing from one tongue to another.—Tr.

Cold—shil, shilaló; Bor., jil, jir, gris.—These terms are derived from the common Sr. cita, 'cold, frozen.' Borrow's form gris is, I think, a mistake; for it seems connected with the Sr. grîshma, which signifies 'heat, the hot season of the year.' In comparing words of the Gypsy language with the corresponding Sr. adjectives in ta, we see that they often change this final syllable to l; thus catam, 'hundred,' becomes shel and shevél; sita, 'grain,' becomes jil; and this word cita, shil. Shilaló, 'frigid;' shil but, 'very cold;' shilaló palvál, 'cold wind.'

To feel cold—shiláliováva.—Verb compounded of shilaló, 'cold,' and aváva, 'to come, to be' (Section V).

Colt-kuri, furi; Br., kuree; Bor., saullo.—May not the first words be related to the Sr. kuraha, 'a light bay horse with black legs?'

Comm—kangli.—There are two Sr. words to which this term can be referred: kankata, 'a comb, an instrument for cleaning the hair,' and kankata, 'a skeleton.' I am inclined to give the preference to the latter, as more natural, and more congenial to the commutation of cousonants observed in the formation of the Gypsy language.

To comb—ghantáva.*—This verb seems to have no relation to kangli, 'a comb,' but may be connected with Sr. kanta, kantaka, 'a thorn, goad,' etc. Ghantáva mó sheró, 'I comb my head;' ghantávaman,

'I comb myself;' Gr. κτενέζομαι.

To COME—aváva.—Aor. avghióm and allióm. Ich allióm te dikáv tút, 'yesterday I came to see thee;' nashkián t'allián, 'they left and came;' sóske allé! 'why have they come!' allióm katár ki lén, 'I came from the river;' kána kamavés! 'when wilt thon come!' but lachés, aváva, 'very well, I am coming;' t'avéla tó dát, te penés mánghe, 'should thy father come, let me know it' (i. e. 'thou shouldst tell it to me').

To conceal—garáva.—It is difficult to refer this verb to any known Sr. root, without violating the common rules of Gypsy derivation. Garáavaman, 'I hide myself,' *χούπισμαι; garávtut, 'hide thyself;' garaticanó manúsh, 'a hidden man' (i. e. 'a mysterious person'), μυστικός.

To cook—pekáva.—Sr. pach, 'to mature by cooking or ripening, to boil, to dress.' Pers. pukhten, 'to cook'; pukhte, 'cooked, matured;' Slav. pekú, 'I cook,' which has changed the Sr. palatal ch into the guttural k, like the Gypsy. This verb is extremely common, and well known to all the Gypsies. Pekiló, 'baked, cooked' (3d pers. aor. pass.); pekó, 'cooked;' Sr. pakva, 'cooked, matured.'

Cool—sudró.—Evidently the Pers. serd, 'cold, frigid.' It is often applied to water, to express its freshness. Sudro paní, 'cool water;' sudro tut, 'cold milk.' It is often confounded with shilalo, 'cold.'

To cover—ucharáva.—The close coincidence of form between this word and the Sr. uchcharámi, 'I arise, go up,' leads me to conjecture their relationship, notwithstanding the difference of meaning. Mid. voice: ucharávaman, 'I cover myself;' ucharávaman e paplomaténja (Gr. παπλώματα), 'I cover myself with quilts:' part. uchardó, 'covered;' biuchardó, 'uncovered,' pronounced often buchardó; as bu-

^{*} Pronounced yantáva, with a Gr. γ (γαντάβα).

chardó isi o amáksi (Gr. ἀμάξι), 'the carriage was uncovered.' Ucharghióm (aor.), 'I have covered.'

Cough—has; Bor., pichiscas.—

To cough—hasáva.—From the Sr. root kas, 'to cough.' The change of the guttural k into the aspirate h is observable in other Gypsy words, as we shall have occasion frequently to notice in the course of this memoir. Many Gypsies pronounce the noun as though it were written with a Greek z. Their pronunciation of the aspirate h is so feeble at times as to be scarcely heard. Borrow derives his term from Sr.

vikshava, 'cough.' But hasáva, 'I cough much.'

To count—ghenava; Bor., ginar, jinar.—The Sr. verb gan means 'to count, to reckon up by number, to calculate.' Though applied to calculations of a higher order by the Hindus, it is now by the Gypsies confined solely to counting. Many of them can count no higher than ten in their vernacular tongue. The word is frequently used in the sense of considering or reflecting. Palalutné ghén, 'consider the consequences' (lit. 'the afterward things'). So also the Greeks: μέτρα τὰ ύστερινά σου.

Cow-see ox.

CREPITUS VENTRIS-khán.-Of donbtful etymology.

Cross-tarshúl, trushúl; Bor, trijul.-All the religious terms of the Gypsies arc of peculiar interest. Unfortunately for their history, they have few such which are vernacular, and, like the Persians and Turks, have borrowed nearly all from the people among whom they live, and whose religion they have embraced. This, however, is a singular exception. It seems to be related to the Sr. tricula, 'a trident, a three-pointed pike or spear, especially the weapon of Siva.' To many Gypsies this word is entirely unknown, and in its place they use the Greek orangos: keráva mo stavrós, 'I make my cross, I cross myself.'

To CRY OUT—bashava.—This Gypsy verb may be referred to Sr. vac. 'to sound, to cry as a bird, to call, etc. These definitions go to prove that the verb was applied by the Hindus to all those sounds of animals expressed by the Lat. ululare. So, too, with the Gypsies, who use it in a very general sense, and apply it not only to quadrupeds. but to birds also. O basnó bashéla, 'the cock crows;' bashéla o chukél.

'the dog barks.'

Curse—armán.—This is an imprecation very much in use among the Gypsies. I will endeavor to explain it by the usages of the natives, both Greeks and Turks. Arman and arma signify in Sanskrit 'disease of the eyes, and consequent blindness.' The Turks, among their imprecations, frequently make use of the phrases kiór ol, 'mayest thou become blind;' kiór olsún, 'may he become blind.' The Greeks very often exclaim to one another τύφλα, 'blindness;' νὰ τυφλωθης, 'mayest thou become blind.' In a similar manner, as I conceive, this Sr. word in the mouth of the Gypsies became a word of imprecation, having the same signification with the Greek and Turkish terms. They know nothing of the primary Sr. signification of arman, and, when asked the meaning of the term, they answer "it is a βλασφημία, 'a curse.'" The phrase Ma déman armán, 'do not give me a curse,' is extremely common among them all, and they use it as we use the phrase. "do not revile me." Armán dáva is 'to curse.' But it is rarely used in any other form than the one given above, precisely as the Greeks

never use the term τύφλα save as an imprecation.

To cur—chináva; Bor., chinelar, achinelar.—The Gypsies use this word indifferently, either for cutting in the ordinary sense of the word, or for reaping. Borrow also defines the word chinelar "to ent, to reap." The Sr. chhid, 'to cut, to divide,' inserts an n before its final radical, like all verbs of the same conjugation: chhinna, from this root, is 'divided, cut.' The Gypsies have rejected the final radical consonant, and in its place have preserved the characteristic n of the conjugation. Borrow's addition of an initial a to chinelar is a pleouasm frequently found in his vocabulary. Chináva, and, in the passive form, chiniováva, is used frequently in the sense of 'I am tired.' Amoug the ancient Greeks, the word *όπτω had this signification: εππος τὸν ἀναβάτην κόπτει (Xen.), and κόπος, 'pain, labor,' evidently prove it. Compare Mod. Greck έκόπην, ἐκόπηκα, 'I am tired;' τὸ ὀδόντι με κόπτει, 'the tooth pains me.' The Turks use the passive, kesilmek, 'to be cut' (act. kesmek), for 'to be tired or wearied.' So that the Gypsies have imitated the usages of their neighbors. Chiniováva kána piráva, 'I get tired when I walk;' kána shunávales moghí chindó, 'when I hear him my heart (is) afflicted' (lit. 'cut'): chinghióm, aor.

To cur with a knife, to whittle—choláva.—The Sr. root chhur we shall have occasion to explain in speaking of churí, 'knife,' to which it has doubtless given origin, as well as to this verb choláva. It is singular that the liquid r should have been retained in the noun, and changed

to l in the verb.

D.

DAY—divés, ghivés; Br., ghives; Bor., chibes.—Related to the Sr. div,* denoting 'heaven, day.' From divés comes disiló, 'the day breaks.' Khandí divés, 'few days;' diveséskoro, 'wages for a day's work;' saró divés, 'every day;' ketí divés? 'how many days?' Ghivés is more general among the Moslem Gypsies.

DEAF—kasukóv; Bor., cajuco.—This is a commou word, well known and familiar to all the Gypsies. I am unable to give it any satisfactory Sr. derivation, though it seems to be related to that idiom.

Death—moló, meripé; Bor., meripen.—This is evidently from the Sr. root mṛi, 'to die,' which we find in nearly all the European languages, living and dead. Moló is the Sr. mara, 'death, murder,' by the change of r to l. The ultimate pe, pen is the customary particle forming abstract nonns, numerous examples of which are to be met with in our Vocabulary. For farther elucidation of this term, see to die.

DEEP—khór.—This term derives itself from the Sr. root khur,† 'to cut, to scratch, to dig.' Khor chin ti puv, 'deep iuto the earth.'

To DEPART—nashāva; Bor., najabar, najar.—This verb I refer to the root naç, 'to disappear, to cease to be, to perish.' Nasghiá t' alliá,

^{*} Armenian div.-TR.

'they left and came;' kána kanashés? 'when wilt thou depart?' but nashéla, 'it goes swiftly' (of a horse); nash améndar, oléndar, 'depart from us, from them:' part. nastó, 'departed.'

DEVIL—bénk; Br., benk; Bor., bengue, bengui.—Bengó isi, or bengósi,

DEVIL—bénk; Br., benk; Bor., bengue, bengui.—Bengó isi, or bengósi, 'he is a devil;' ja túke bénke, 'go thou also to the devil,' an imprecation; bengaló manúsh, 'a devilish man,' i. e. 'a cunning man.'

To DIE-meráva.-We have in other parts of our Vocabulary terms which are connected with this verb, as moló, 'dead, death,' meripé, 'death,' merdó, 'sick' (Bor.), murtaráva, 'I murder.' We have occasion, in defining these terms, to speak of the Sr. root mri, 'to die.' which is to be found in a great many languages, bearing intimate relation to the Sanskrit. It was naturally to be expected that a word which has retained its place in so many languages, having more or less affinity to the Sanskrit, should also be preserved in the Gypsy. In speaking of meripé, 'death,' we have noticed some of the affinities of this verb among the Indo-European languages. The reader may be pleased to see the word running with slight variations through so many languages. The Zend has mere, 'to die,' and the transitive merec, 'to kill.' Pers. merden, 'to die,' merd, 'a man,' corresponding to the Euglish use of the word mortal, 'one liable to death, a man.' With the Sr. part. mrita corresponds the Gr. Boords, and with amrita, duβgoros, 'immortal,' and duβgoσία, 'the food of immortals.' The Albanians, from the Gr. βοοιός, have formed their verb βοας, 'to die,' while they have retained the original in a purer form in $\mu \delta \hat{q} \hat{q} \tau$, 'death.' The Lat. morior has no need of explanation. The Gr. pagatru has even to this day the same signification among the modern Greeks that it had among their fathers: it is applied to the death of plants, and to the wasting of life by long disease, the μαφασμός of the ancient Greeks. The European languages, Latin and German, have retained the word, particularly in its transitive form, to murder. Slav. umyráyu, 'I die,' and moriú, 'to kill.'* Mulótar, 'after dving.'

To DIG—khatáva.—The Sr. verbal root khan is 'to dig, to delve.' Khanâmi, 'I dig,' would be in the Gypsy language khanâva, instead of khatáva. But the Gypsies, as we shall have hereafter occasion to demonstrate, instead of borrowing directly from the original root, have made use of participles as roots, and from thence have formed many of their verbs. We have an example in dúk, 'pain,' dukáva, 'to be in pain.' So here the part. khâta, 'dug, excavated,' has served as the root of khatáva, 'I dig.' Kón khatélalen? 'who digs (i. e.

'eultivates') them?

Dirt-mel.-

Dirty—melaló.—Compare the Sr. noun mala, 'dirt, filth, sediment,' and the same as an adjective, 'dirty, filthy.' The Sr. adjective malina may have given origin to the Gypsy adj. melaló, by the mutation of n to l. It appears to me, however, to be a regular Gypsy formation from mel, 'dirt,' by the addition of lo, which is a common adjec-

^{*} The Arm. language has mer-nil, 'to die;' mertzoonel, 'to murder;' maril, 'to faint away;' mah, 'death;' 'mahganatsou,' 'mortal;' 'anmah,' 'immortal.'—TR.

tive termination among the Gypsies. As whiteness is a symbol of purity, so is blackness associated with whatever is filthy and unclean. This word, which has also the signification of 'black' in Sr., is undoubtedly related, then, with the Gr. $\mu\ell\lambda\alpha\varsigma$, 'black,' and $\mu\epsilon\lambda\alpha\nu\iota\sigma$, 'ink.' To the same origin I refer another Gypsy word, mulanó, 'dark,' from the Sr. adj. malina. Borrow has mulani, 'sad.' Te tikné isi melalé, 'thy children are dirty.'

To become DIRTY—meláliováva.—A compound verb, of the mid. voice, compounded of melaló, 'dirty,' and aváva (see Section V). Melalióm, 'I have been dirtied.'

Doon—dar, vudár; Bor., burda.—The derivation of both these terms is very evident. The Sr. dvåra, 'door, gate, passage,' appears in both ancient and modern languages: Zend dvara, Pers. der, Gr. Φίρα, Goth. daur, Eng. door.* Puradvåra, composed of dvåra and pura, 'city,' is the same as our πύλη, 'gate, city-gate.' I refer Borrow's word to this compound, which in the mouth of the Gypsies has lost its last syllable. If this etymology be correct, we may here find the derivation of the Latin porta. This term is by some Gypsies pronounced dal, by the natural commutation of the liquids. Kon déla o vutár? 'who knocks at the door?' bánd o vutár, 'shnt the door;' dúi dar teréla, 'it has two doors.'

Down, Below—telé, felé; Bor., ostelis, osteli.—This word, common also to the Slavonic (doly, 'down'), I refer to the Sr. tala, 'deep, a low place, the foundation of any thing.' With it is connected, probably, the Latin tellus, 'earth.' The telé of the Gypsies is the regular locative case of tala—tale. The analogy is manifest. In Borrow these forms seem to have an initial euphonic syllable, foreign to the

original word.

Dream—sunnó.—Compare Sr. svapna, Gr. δπνος, Lat. sopnus, somnus, 'sleep;' Lat. sopnium, somnium, Gr. ἐνόπνιον, 'dream,' lit. 'in sleep' (ἐν ὅπνο); Slav. sónie, 'dream,' from son", 'sleep.' In the same manner, by the rejection of the radical p, has been formed the Gypsy sunnó, which, like the Latin somnium from sopnium, was probably at

first supnó. Me sunnéste, 'in my dream.'

To dress—uryaváva.—In order to make intelligible the meaning of this verb, it is well to say that it is used precisely as the Greeks use their orolifouat, 'I adorn myself, I put on clean clothes, or fine clothes.' It has also the signification of 'changing clothes,' and often simple 'dressing,' as to dress for a ball or party, etc. To me it seems related to the Sr. adj. àrya, 'of a good family, apposite, proper:' unless it be rather connected with the root urnu, 'to cover, envelop, dress.' Uryoïpé, 'raiment;' uryanghiás tút, 'thou hast dressed thyself.' Some Gypsies say uryáva, 'I dress.'

To DRINK—piáva; † Bor., piyar, tapillar.—Two Sr. roots exist, intimately related to each other, to which these Gypsy terms can be referred; namely, på and pî, 'to drink, to nourish.' Borrow has pita,

^{*} Armenian toor.—Ta.

† "Napilel, 'à boire'" (probably tapilel). Vaillant, p. 369, "Tepau, piaue, piaue, pi." Arndt, p. 391.

'drink,' related to the Sr. pîta, Lat. potum, Gr. ποτον. Slav. piyû,
'I drink.' Piliâs akhiá mol, 'he drank that wine;' án te piás, 'bring
(i. e. 'come'), let us drink;' khandí mól piáva, 'a little wine I drink.'

Drunk, Intoxicated—mattó; Bor., mato.—From the Sr. root mad, 'to be merry, intoxicated, excited, or mad,' part. matta, 'intoxicated.' We find this word in the Latin: Pliny calls the white vine (Brionia alba) madon, and Plautus the intoxicated madulsa; and although these terms are derived by the lexicographers from madeo, still I think they should rather be referred to the Sr. mad. Gr. uarla and uarla, 'levity, folly,' properly originate from this Sr. root. Mattó, coming evidently from the Sr. matta, should be written with tt. Mattó isi, 'he is drunken,' pronounced in an abbreviated form mattósi.

To become DRUNK—máttiováva.—A compound verb, from mattó, 'drunk-en,' and aváva. The form is the usual mid. voice. Mattilióm (aor.), 'I became intoxicated;' mattiovéna, 'they became intoxicated.'

DRY, EMACIATED—shukó; Bor., juco, fem. juqui.—From the Sr. verbal root çush, 'to dry,' is formed the adj. cushka, 'dry, slim, emaciated.' Compare Slav. suhíi, 'dry,' súshta, 'dry land,' in distinction from the sea; Lat. siccus. Shukó manró, 'dry bread,' denoting bread without any other food; shukó manró na khalióla, 'bread alone cannot be eaten;' shukó manúsh, 'an emaciated man;' shukí romní, 'a lean woman.'

To dry—shukiaráva, shúkiováva.—Of these two terms, the former is transitive, 'to dry, to expose any thing to the sun or fire to be dried;' the latter is a middle verb, 'to become dry' (Gr. στεγνόνομαι), as with other verbs of this formation (Section V). Shukilióm, 'I have become dry;' kashukiovél (fut.), 'he will be dried.'

Dung—goshnó.—There seems to exist, in the first syllable of this term, the Sr. go, 'a cow;' compare modern Greek βουνιά, 'the dung of the bovine species,' to which may be referred another Gypsy term, bunista, 'dung.' Goshné, 'dungs,' corresponds to κόπφος, κόπφοι, κόπφανον, κόπφανα, 'excrements.'*

Dog—chukél; Br., rikono; Bor., chuquel.—For the explanation of rikono, see Whelp. The other two are perhaps from the Sr. jukuta and jakuta, 'dog.' Kon diniás amaré chuklés? 'who struck our dog?'

DWARFISH, SMALL—khurdó; Bor., chirdó.—Both these terms are referable to the Sr. krit, 'to cut off,' whence the Lat. curtus,† It. corto, Fr. court, Germ. kurz. Our *νορίο, which is of the same derivation with the Lat. curtus, signifies generally 'humpbacked.' I think also that our *νουρίο, *νουρίο are of the same origin. Khurdó is applied to a child at the breast, to a young man, etc. Kaméla te pandrevél khurdó, 'he wished to be married young' (pandrevél = ὑπανδορεύομαι); khurdó chavó, 'a young child;' khurdé machorénghe, 'to the small fish:' khurdó is properly 'small in body or mind.'

^{*} Pott, under groni, has "Poln. gnoy, Walach. gunoin, 'mist;' gréngro gurum-niakro grojjo, 'pferde-, kuhmist.'"

† Armenian kodrods, by transposition of r and d.—Ta.

E.

EAR-kann; Br., kana; Bor., cani.—The Sr. karna, 'ear.'

Early—ráno.—This is a Slavonic term, ránv (adv.), 'early, very early.'
The Gr. δοθοιος and δοθοιος of the New Testament are always translated by this term. Ráno ráno is frequently to be heard in the mouth of the Gypsies. The Greeks often say in a similar way, πρωί πρωί, 'very early.' Turk. chapúk chapúk, 'quickly.' Κάde (κάδε) ráno, 'every morning.'

EARTH—puv, phuv, pfuv.*—This is the Sr. bhû, 'the earth.' Many Gypsies pronounce it bhu, others fu. To the pronunciation of this word are applicable the observations which I have already made in the preceding Section (p. 162). Puvéskero, 'of the earth;' chin ti puv,

'to the ground.'

To EAT—kháva.—This is the common Sr. root khâd, 'to eat.' Isí te khás manró khandí?' 'can (lit. 'is there') I eat a little bread?' dikáva ka terés onghi te khas, 'I see that thou hast appetite (lit. 'heart') to cat;' shukó manró ná khalióla, 'dry bread is not to be eaten:' khalióla is the mid. form of khaliováva. Khasói, 'food,' is applied to whatever is eaten with bread; Gr. öψος, Turk. katék: arakéla manró, khasói te khésa, 'there is found bread (and) food for thee to eat;' ta na khávas, 'and should I not eat;' khandí khásales, 'a little we eat (of) it;' te khén e chavé gudló tut, 'that the children may drink (lit. 'eat') sweet milk.'

Egg—vanró; Bor., anró.—The Sr. neuter noun anda means 'an egg,' also 'a testicle.' It has both these significations among the Gypsies. In this they have followed not only the usage of their nother tongue, but that of the Turks and Greeks: cf. Turk. yumurta, 'an egg; a testicle;' Gr. ἀνγὸν (anc. ἀὸν), 'an egg, a testicle.' The Gypsies of Turkey have added an initial v to their noun. This word I have sometincs heard pronounced vantó. The pronunciation of the dental consonant in it resembles that of do and ro in mindó, minró, 'mine,' of which we have already spoken in the former Section (p. 162).

EMACIATED—See DRY.

Empty—chuchó.—Referable to the Sr. adj. tuchha, 'void, empty.' It is often used by the Gypsies for 'a dull man, an empty mind:' compare Turk. bosh, 'empty.' The Greeks also, borrowing this Turkish term,

say αιθοωπος μπόσικος, 'a good-for-nothing man.'

EXCOMMUNICATION—kalipé.—This abstract noun is formed from kaló, 'black,' by the addition of the usual particle pe. I have noted the word merely to show its peculiar use among the Gypsies, and because of its interest as a religious term. Excommunication is frequently resorted to in order to induce thieves to give up stolen property; although but rarely in the case of Gypsy delinquents, on account of their irreligion.

Extinguisher—vrehtúla.—This is a Greek term, βοεχτοῦλα. By the Gypsy blacksmiths it is applied to small pieces of old straw carpet,

^{* &}quot;Bhu, ebhu, 'terre.'" Vaillant, p. 33; "pou." do., p. 395; "o bhu, 'la terre.'" do., p. 457. "Pu, bu, pube, epebu." Arndt, p. 357.

soaked in water, which is then sprinkled over the charcoal fire, in order to extinguish it. This term is nowhere to be found in the dictionaries of our language, to my knowledge, although it is of a regular formation. It is in use among some of the Greek blacksmiths, but is

principally to be heard among the Gypsies.

Eve-yak; * Br., yaka; Bor., aquia.—The final a of Mr. Brown's form is the characteristic vowel of the plural. Yak is evidently from the Sr. akshi, aksha, 'eye,' which is cognate with the words used to denote 'eye' in many of the Indo-European languages. The Latin oculus implies an ancient form ocus, of which it is a diminutive. vonic has preserved this unchanged, in oko, 'eye;' Germ. auge; Eng. eye. The initial y of this term is a euphonic prefix: so, in Greek, we say often yéma for aiua, 'blood.' Mono yak, 'my eye;' perdilé me yaká, 'my eyes were full (of tears);' dikéla man to yaká, 'he looked me in the eyes; bandava me yaka, 'I close my cycs.' Eye-brow—pov.—This may be referred to the Sr. bhrû, 'an eye-brow,'

which appears in so many cognate languages, more or less altered: Zend broat; Pers. ibru; Slav. brov; Gr. oggo; Eng. brow, etc. rejection of the liquid r, when united to other consonants, is extremely common with the Gypsies (see Section IV). Makardé pová, 'painted

eye-brows.'

To FALL—peráva.—This is the Sr. pat, 'to move downwards, to fall, to descend.' Aor. pelióm, 'I have fallen.' It is a very common word among all the Gypsies. O yek pelótar, 'the one after falling;' per te devléste, 'fall on thy back' (lit. 'on thy God'); piló and peló, 'fallen;' piló isóm, 'I am fallen,' 'I fell.' The change of t to r we have noticed above.

FAT-parrardó.—From the Sr. root vardh, 'to increase,' with the prefix pra or pari; pravriddha, 'increased.' Parvardó mas, 'fat meat.'

FATHER—dát; Br., dat; Bor., bato, batu.—Dat corresponds to the Sr.

tâta, tata, 'father,' while bato, batu probably come from the Sr. pitâ, 'father,' which has correlatives in nearly all the ancient and modern European languages, modified according to the spirit of each language: Pers. beder, Gr. navig, Lat. pater, Germ. vater, Eng. father. Até isí tó dát? 'is thy father here?' lákoro dat, 'her father;' mró dát, tó dát. 'my father, thy father.'

FATHER-IN-LAW—shastró, sastró.—

Mother-in-law—shasúï, sashúï.—Both these terms may be easily conneeted with the well known Sr. words gracura, 'father-in-law,' and cvacru, 'mother-in-law,' which have passed into the Latin socerus and Greek Ezvois: compare Germ. schwäher and schwiegervater.

* "Iak, 'oeil.'" Vaillant, p. 359. "Jakch, 'auge.'" Arndt, p. 374.

The Armenian achk is from the same root, accommodated to the favorite sounds of the language, which indulges freely in transposition of letters and interchange of

similar sounds.—Tr.

‡ "Tat, 'pere." Vaillant, p. 481.

§ It is found in many languages, as Eng. daddy, Welsh tad, Irish taid, Russian tatra, etc.-TB.

Fear—dar; Bor., dar, dal.—

To FEAR, to be AFRAID—daráva; Bor., darabar, darañar.—These definitions are all referable to the Sr. verhal root dri, dar, 'to respect,

venerate, dread,' whence comes dara, 'fear, terror.'

FEVER-trésca.—This is a Bnlgarian word for 'fever,' particularly the intermittent autumnal fever, so prevalent in the great valley of the Danube. It is related to the Slavonic tryasú, 'I shake, I move.' Both Greeks and Bulgarians, in speaking of intermittent fevers, give them this denomination. Gr. Hogun and Dequavia. The Gypsies have followed the usage of their neighbors, and apply this word solely to intermittent fevers. Borrow's term for 'fever' we have already explained (see Bath).

F1G—-kheli.-

FIG-TREE—khelin.—Of douhtful etymology. Teréla te khelia, 'it has

File-verní.-Of origin unknown to me: pl. vernía. Keténghe kinghián oká verní? 'for how much didst thou buy that file?' jovénghe, 'for six' ('pieces of money' understood).*

To FILL-peráva.-From the Sanskrit root par, pri, 'to fill.'

FINGER—angúst, angrúst; Br., wass; Bor., angusti.—See RING.

Brown's wass is a mistake for 'hand.'

To finish—resáva.—This is one of the many Gypsy words whose derivation is to me doubtful. The proper meaning of the word, as used by the Gypsies, is 'to finish husiness, work, a day's labor:' resaughiom mi puti, 'I have finished my husiness.' It is often used impersonally: as reséla, 'it is enough;' reséla man, tut, les, 'it is enough for me, thee, him;' na reséla, 'it is not enough.' It is used also in the sense of 'arriving, reaching:' nasti resaughiómles, 'I could not reach him; avdivés resaughióm, 'today I have arrived; kamaresél? 'will he arrive?'

Fire—yak; Br., yak; Bor., yaque.—This word, at first, might seem to he from the Turkish verb yakmak, 'to hurn,' imp. yak, 'burn thou.' But it is my opinion that in the genuine Gypsy language we have no Turkish words. I am not unaware of the general corrupt use of Turkish words among the Gypsies, whether Christian or Moslem, as well as among nneducated Greeks and Armenians. But if the word he Turkish, how did the Gypsies of Spain get it unchanged? They have neither known the Turks, nor had their fathers. in passing through Europe, the slightest intercourse with them. I think, then, that this word yak is from the Sr. root yaksh, and its derivative and synonym yaj, both meaning 'to sacrifice, to offer in worship.' Tebeshás bashé ti yak, 'let us sit near the fire;' murtaráva i yak, 'I quench (lit. 'I murder') the fire;' murtár i yak, 'quench the fire.'

First—avkós.—This word, which I translate 'first,' seems to he related to atiá, 'here,' with the particle ka, expressing presence, time.

^{*} Pott writes the word yerni, 'lima, file.' † "Iag, 'feu.'" Vaillant, p. 480. "Jag, jak, jago, 'fieber.'" Arndt, p. 357. 1 See what has been already said respecting this word, in Section II (p. 156).

may be translated 'this one,' and, in an emphatic tone, 'the first.' There is some analogy between this Gypsy term and the Slavonie, which has made its number one 'edyn', from the Sr. âdya, 'first, initial.' Avkós anglé, 'the foremost.'

Fish—machó; Br., matchó; Bor., macho.—This is the Sr. matsya, 'fish.'
Machoró, 'a small fish;' khurdé machorénghe lon chivéla, 'to the
small fish he throws salt;' machéskoro, 'a fishermau;' londé maché,

'salted fish.'

Fist-domúk; Br., domuk.-A term well known to all the Gypsies.

FLAX—vus.—This probably originates from the same root as bus, 'straw.' While the one name was applied to straw, the other was given to flax. The Sr. has busha and busa, 'chaff.' It is well to remark that flax is a very important branch of trade with many Gypsies, in the neighborhood of populous eities.

Flea-pushúm: pl. pushumá.-But pushumá terávas okhiá ratt, 'many

fleas I had this night.'

Flour—varó; Bor., roi.—This term may be referred to the root bhṛi, 'to nourish, to cherish, to maintain;' bhara, 'one who cherishes, upholds, supports,' etc. Sóske ná terásas varó, 'because we had not flour;' déman khandí varó, 'give me a little flour.'

FLY—makiá; Bor., macha.—These terms are referable to the Sr. mak-shikâ, 'a fly.' Bopp derives from this term the Latin musca, and the

Old German mucca, 'a gnat, a mosquito.'

Fool-deniló; Bor., dinelo, ninelo.-The Sr. adjective dina is defined 'poor, distressed, frightened.' By the addition of lo the Gypsies have formed this word, applied now to those who are either extravagant in their speech and actions, or suffering under alienation of mind. Here in Turkey, it is translated constantly by the Turkish deli, 'a fool, Gr. λωλός, 'fool, lunatic.' The second word of Borrow has merely changed the initial d into n. Borrow, in the etymology of the word dinelo, gives the Pers. diwanah (divane), a word common also among the Turks. This has no connection with the above mentioned word, being from div, Sr. deva, 'a god,' by the addition of the usual Pers. suffix ane, meaning one in the power of a god or demon;' the damorios of the Greek, the damorioueros ('enraged') of the present Greeks. Piliás akhiá mol ta deniló, 'he drank that wine and (became) a fool,' i. e. 'was intoxicated.' From denilo is formed deniliováva, 'I become a fool:' méya pilióm ta denilióm, 'I also drank and became a fool.'

Foor—piró, pindó, pinró, pirnó;* Br., peera; Bor., pinro, pindro.—
The Sr. usually employs the words pád and páda, from the root pad,
'to go, to move,' whenee onr πούς, ποδύς, Lat. pedis.† The above
Gypsy words have no relation to this Sr. root, but appear to come
from the verb par, 'to pass, to traverse.' Of the four forms which I
have given, the first appears to me to be most in use among all the
Gypsies. Mr. Brown's peera is probably a plural form. Pindó is
often pronounced pinró, like mindó, minró, 'mine' (see p. 162).

^{* &}quot;Geroi, pir, 'fuss.'" Arndt, p. 382.

Jáva ti Silivrí grastésa, tá ná pindéntza, 'I go to Silivria with a horse (i. e. 'on horseback') and not with the feet' (i. e. 'on foot'); me piré dukénaman, 'my feet pain me: 'piripé, 'gait,' applied particularly to the horse: pirindós, 'going on foot;' pirindós kajés! kamajáv grastésa, 'art thou going on foot? I shall go with a horse' (i. e. 'on horseback').

Foreign—peryúl.—This term seems to have originated from the Persian perghiúl, 'a strauger, a foreigner.' Peryulicanó tan, 'a foreign

country' (lit. 'place').

Forest—vesh.*—This is the Pers. bishe, 'a wood, a forest.' By some Gypsies it is used for 'mountain,' probably on account of the moun-

tains of Roumelia being so thickly wooded.†

Forwards—anglė; Bor., anglal.—The Sr. adjective agra, 'chief, principal, first,' corresponds with ἀκρος, so often used by the Greek writers: agre is its locative case, frequently used as an adverb, signifying 'in front, in the forepart.' By the usual change of r into l, and by the interposition of a euphonic n, it has become anglė. Adj. anglutno, 'the first, the one foremost.' Anglė isás mindi, 'formerly it was mine (mea);' pó anglė, 'still more forwards;' anglál, 'from the front' (Borrow's form): anglál to kér, 'from the front of the house,' or 'from the house in front;' anglál mánde, 'in front of me, before me;' anglál to pashá, 'before the pasha;' Gr. ἐνώπιον τοῦ πασσᾶ. This ablative form is now mostly used for anglé. Anglál devléste, or anglál to devél, 'before God, in the presence of God.'

Friend—parnavô.†—This term is not very common among the Gypsies here. It is related to the Sr. root prî, 'to please, to delight, to be pleased or satisfied.' This root has given to the Gothic frijô, 'I love,' and frijonds, 'loving;' to the Slavonic priyâte'ie. 'loved, pleased;' to the Greek φιλῶ, φίλος. The participle prîna, 'pleased, satisfied,' may have given origin to this Gypsy term, by the addition of the final syllable vo, common in forming Gypsy adjectives. Jâva ti pôlin (πόλιν) te dikâv me parnavês, 'I go to the city to sec my friend;' isi mô parnavô, 'he is my friend;' po lachés ta terésales parnavô, 'it is better that thou shouldst have him a friend' (i. e. 'friendly'); ta te penés sarné parnavênghe t' avên, 'tell all the friends to come.' From this is formed the abstract parnavoipé, 'friendship:' kêr mánghe aká parnavoipé, 'do me this friendship' (i. e. 'favor').

Frog-zámpa.—I do not know the derivation of this word, which,

however, appears to me to be of Slavonic origin.

From—katár.—Ablative part. tar. From the rel. pronoun kón. Katár ti hindovi, 'from India;' katár ti pólin (πόλιν) aváva, 'from the city I come;' katár to sastó, 'from the right' (i. e. 'side'); katár ti drák keréna mol, 'from the grape they make wine.'

^{* &}quot;Vesh, 'foret.'" Vaillant, p. 457.

[†] Pott writes the word weesh, vesz, vash, more in harmony with bishe. I have heard the word pronounced vest, though rarely.

^{† &}quot;Tirei, pries'ang pani om. 'je suis votre ami, votre frère.'" Vaillant, p. 391. This is extremely corrupt. It should probably stand thus: tiró pries'som, pral

Full—perdó; Bor., perdó.—From the Sr. root prî, 'to fill,' is formed the participle pûrta, 'full, filled, complete.' There is a striking resemblance between the Spanish and Turkish Gypsy words, whenever they can be traced to their proper Sr. root.

To become FULL—pértiováva.—A compound verb, of the mid. voice, composed of perdó, 'full,' and aváva, 'I come.' Perdilé me yaká, 'my eves have become full (of tears);' Greek γεμίζομαι, from γέμω.

'I fill.

 \mathbf{G}

Gair—piripé.—From piró, 'a foot,' by the addition of the particle pe. It is applied to horses and donkeys, especially to the former, which are valued according to the smoothness of their gait, so much esteemed by the Turks. Piripé is mostly applied to that pace of the horse called amble; Pers. rahvan, 'easily moving on a road.' Piripé teréla? teréla, 'has it a good gait? it has;' amaré grastéskoro piripé nanái lachó, 'our horse's gait is not good.'

Garlic—sir; Bor., sar.—This word is probably of Persian origin, from sir, 'garlic, allium.' The present Hindustani word is seer, 'garlic,'

as given by Borrow in his vocabulary.

GIRDLE—kiustik.—This is a Persian word, kiustek, meaning generally 'the fetters put to the feet of horses', as in the stables of the East. Kiustek, as it signifies 'something that binds, a tie,' has been applied by the Gypsies to the girdle, as a fastening.

GIRL-See BOY.

To give—dáva; Bor., dinar.—This is evidently from the Sr. dâ,* 'to give,' which is extremely common in all the Indo-European languages, ancient and modern. This verb is irregular in its eonjugation: imp. dé, 'give thou;' déman, 'give to mc:' aor. dinióm, 'I gave,' which approaches more nearly to Borrow's form. Dáva has also another signification, 'to beat, to strike, to knock,' extremely common among all the Gypsies, taken probably from the colloquial usages of the Grecks. Kón déla o vutár? 'who knocks at the door?' instead of maréla, 'strikes;' diniómles ti pak, 'I struck it on the wing;' diniás e castésa amaré chuklés, 'he struck with a stick (i. c. 'wood') our dog;' o manásh diniáspes e yek barésa, 'the man was struck with a stone;' kon diniás te romnia? 'who struck thy wife?' Dinó, part, 'given, struck, flogged.'

To go—jáva.—This verb I refer to the Sr. gá, 'to go, to move.' It is universal among the Gypsies, and used as the Greeks use their ὁπάγω, and the Turks gitmék. Aorist, ghelióm, 'I went,' pronounced at times gherghióm: kárin kajés, or kamojés? 'where wilt thou go?' ghelióm tó gáv, 'I went to the village;' gheló avrí, 'he went out;' jéla po górkes, 'he goes worse;' jél avéla, 'he goes (and) comes,' Gr. ὑπάγει ἔγεεται, Turk. ghidér ghelír, meaning to go continually to and fro. At times jáva is used in a transitive sense: gherghióm gív tó vasiáv, 'I went (i. e. 'I carried') wheat to the mill;' ghelián ti pólin (πόλιν)? ghelióm, 'didst thou go to the city? I went;' jáva te dikáv,

'I go to see.'

To go out—niglaváva.—A compound verb, formed of the Sr. root kram, 'to go, to walk, to step,' joined to nir, 'out.' Aor. niglistinióm and niglistilióm, 'I went out.' The Sr. kram is a favorite word with the Gypsics, and, joined to prepositions, it is frequently to be heard among them. Niglistinióm avrí, 'I went out,' Gr. ἐκβαίνω ἔξω; kamanig-

laváv, 'I shall go out;' imp. nigláv, 'go thou out.'

God-devél; * Br., devél; Bor., debél, ostebel, umdebel.—These terms have a striking similarity, and are derived from the Sr. deva, 'a god,' Lat. deus, Gr. Feos. In regard to the first syllables of Borrow's terms, os-debel and um-debel, I think they are Spanish articles. He says that the um of the third word is probably (the δm) the ineffable and mysterious name of the Hindu Godhead. Mr. Borrow remarks in his glossary that the word was pronounced by a christian Gypsy o-del, o dand, and o devel. The o in this case is the Greek article, which the Moslem Gypsies generally reject. In this, the Gypsies have imitated the Greeks, who never pronounce the name of God without the article, δ θεὸς. This term, among the Gypsies, when used as an invocation, admits the pronoun at the end of the word, contrary to the general usages of their language: devlám, 'my God;' more usually they say madél, mo devél. Dúk e devlés, 'love God:' devlés instead of develés, a clipped form of the acc. of nouns in el. Achén devlésa, 'rest ye with God,' a common form of salutation; ja devlésa, 'go thou with God.' There is a peculiar use of this term which has always appeared to me very curious: pelióm opré me devléste, 'I fell upon my back' (lit. 'upon my God'); per te devléste, 'fall on thy back;' per devlikanés, 'fall on thy back.' Devlikané, adj., 'godly,' Lat. divinus: devlikanó manúsh, 'a godly man;' devlikaní romní, 'a godly woman.'

Goon—lachó; Br., lachó; Bor., lachó, fendó.—The origin of this word is quite unknown to me. It is extremely common among all the Gypsies, and well known in Roumelia and Wallachia. Lachó divés, 'good day, good morning;' lachó manúsh, 'a good man;' lachí romní, 'a good woman;' laché romnía, 'good women;' lachó mas, 'good meat;' lachó grast, 'good horse:' lachés, adv., 'well;' po lachés, 'better.' The Moslem Gypsies make use of Turk. dahi, 'more,' to form the comparative degree (Section V): dahí lachés, 'better.'

Gold—somnakái, gálpea; Bor., sonacai.—Gálpea I cannot explain. The Sr. kanaka, 'gold,' to which Borrow refers, appears to me an improbable, not to say an impossible, derivation. The derivation of somna-

kái may be sought in the Sr. word sânasi, 'gold.'

Gourn—dudúm.†—This term is applied to all the species of this plant, common in these countries, and very generally used by all classes of people. The only Sr. word with which I am able to compare it is dudruma, 'a green onion.' As to the rejection of the liquid r, we have occasion to note numerous examples of it in the course of the Vocabulary.

Grain, wheat—giv, iv; Bor., gi, guy, jil.—These terms, and our ottos, 'wheat, corn,' I refer to the Sr. sita and sitya, both having the signifi-

^{* &}quot;O dél, 'le dieu.'" Vaillant, p. 457. "Dewêl." Aradt, p. 174. Armenian tutum, 'squash, vegetable, marrow.'—Tr.

cation of the above. Sita also denotes 'the furrow made by the plow,' as well as 'the goddess of fruits;' sitya, 'grain,' and, in general, 'every kind of cereal product,' and 'rice.' The Gypsy forms are made by cutting off the final syllable ta, which the Greek has preserved. The Slavonic, which has preserved many archetypal Sanskrit words in their utmost purity, has zito and zeta, signifying 'all kinds of cereal

products.' This term is very frequently pronounced iv.

GRAPE—drak; Bor., dracay, traquias, mollati.—These are evidently derived from the Sr. draksha, 'grape.' The third word of Borrow I refer to mol, 'wine.' Though this term, molati, is unknown to the Gypsies near Constantinople, Vaillant has marked it as common among those on the banks of the Danube, writing it moleti. The Sr. word is madhuta, 'sweetness,' not found, however, in the great dictionary of Wilson. Draká laché isí, 'the grapes are good;' keréla drak, 'it inakes (i. e. 'produces') grape' ('grapes'); i drak khénala, 'the grape (grapes), they eat them;' katár ti drak keréna mol, 'from the grapes they make wine.'

Grass-char; Bor., char.-

To graze—charáva.—The Sr. verb char, 'to go, to eat,' is applied also to the grazing of cattle. The Gypsy word char is applied principally to hay, and the verb itself to the feeding of animals, by hay or other vegetable substances; it corresponds to the Greek χορτάζειν, which at first was applied to feeding animals with hay (χόρτος), and by degrees came to mean also the taking of food by man; hence our χορταίνω, 'I am satiated.' Borrow defines char as 'grass, yerba.'

Great—baró.—This adjective seems to be related to the Sr. bhara, 'much, excessive.' Mo kér isi baró, 'my house is great:' baró man-

úsh, 'a great man.'

GREEK—balamó; Bor., paillo.—These two terms, which appear to be related, I am totally unable to explain. It is extremely difficult to give plausible explanations of all the terms which the Gypsies have given to the neighboring nations. Here in Turkey, with the exception of a few names, which I have noted in the Vocabulary as peculiar to them, they use the same terms as the Greeks and Turks. Pl. balamé, 'Greeks;' balamanó gáv, 'a Greek village;' balamni, 'a Greek woman;' pl. balamnia; balamanés, adv. form, i. q. Fouriout: balamanés janés? 'dost thou know Greek?'

To GEIND—pisháva.—From the Sr. verbal root pish, 'to grind, to pound, to bruise, to powder,' Lat. pinsere. With the Gypsies this word is used merely for grinding corn in mills, or between two large eircular stones. Giv gherghióm to vasiáv, kamapishávles, 'wheat I have carried to the mill; I shall grind it.'

Guard—arakáv; Bor., aracate.—

To GUARD—arakáva; Bor., aracatear.—Both these terms can with perfect propriety be referred to the Sr. root raksh, 'to guard, to protect.' The initial a, so constant in all these forms, may be explained as an inorganic prefix. It may be, however, that the a is the remnant of a preposition. The Gypsies have dropped the final sibilant of the Sr. root, a proceeding upon which we shall have occasion to remark in the next Section. This term has often the signification of

'waiting.' Ta arakavél khandí divés, 'to wait a féw days'—arakavél is here in the middle voice; arakiováva, arakavghióm, 'I have guard-

ed;' arakáv, 'wait thou.'

Gypsy—róm.—All the various denominations for this strange race common among foreigners are to the Gypsies themselves totally unknown. It is still more to be wondered at that foreigners should never have adopted the appellation by which they call themselves, and which is common to them wherever they live, whether in Asia or Europe. Before I proceed to the explanation of this term, I will give the various names by which they are known among foreigners in various parts of The German zigeuner, Russian zigari, zigani, Persian the world.* and Turkish zengi and chingené, and arotyravos of the Greeks, seem to come from one and the same original, which Borrow makes to be "zincali, the black men of Zend or Ind:" a derivation of no value. Another class of words seem to belong to the term ἀιγύπτιος, 'Egyptian,' they having been formerly supposed to originate from Egypt. This word has been corrupted by us into γύπται, γύφται, a term which we now very frequently apply to dirty and ragged people. The Bulgarians call them gupti, the Spaniards gitanos (properly giptanos), and their haunts in the cities of Spain gitaneria. The English gypsy is from the same root. The Greeks also have another term, κατζιβελος, more in use in Roumelia. The French call them Bohémiens, probably from their having come to France from Bohemia, as they also have been called Germans and Flemish from their coming from those countries. All these terms are known to the Gypsies, but are never used by them; never will a Gypsy call a fellow-countryman ἀτσίγγανον or κατζίβελον; here, as in other parts of the world, they scrupulously avoid all the usual foreign terms. The derivation of the Turkish chingené and its correspondents in other languages is still a desideratum, and probably much time will pass before its etymology will be fully explained.

As to the term rom, it has a double signification—being used for man in general, and likewise for a man of their own race as distinct from one of other descent; romni, in like manner, means 'woman.' Róm is also used for 'husband,' and romni for 'wife.' Romanó (fem. romani) is the adjective form. This term, it appears to me, can be referred to the Sr. râma, a name of the god Vishnu, and of three of his incarnations. By the Gypsies it may have been given to their tribe as worshipping in an especial manner this god. Kárin isi to rom?' 'where is thy husband?' chori romni, 'a poor woman;' lachi romni, 'a good woman;' sáwore o róm, 'all the men;' romani chip, 'the Gypsy language;' kón diniás amaré romá, 'who struck our men?' i romni léskeri isi phuri, 'his wife is old;' me praléskoro romni, 'my

* Vaillant (p. 4) gives sixty-eight various denominations of these people, which are mostly varieties of those which I note.

[†] Alessio da Somavera, who published his "Tesoro della Lingua Greca Volgare" in Paris, 1709, gives the following terms, which are still in use: ἀτζυγκάνα, 'zingana, zingara;' ἀτζυγκαναρών, 'bottega di zingano;' ἀτζυγκανώνω, ἀτζυγκανώνω, 'zinganare;' ἀτζυγκάνικα, 'da zingano;' ἀτζυγκανόπουλον, 'zingarino;' ἀτζυγκανος, 'zingano, zingaro.'

brother's wife; 'e yavréskoro romní, 'the wife of the other;' o dát romniákori, 'the father of the wife' (i. e. 'father-in-law'); dikáva e romés, 'I see the man;' romanó láv, 'a Gypsy word:' pl. romá 'mem;' romnia 'women:' khorakhanó róm, 'a Moslem Gypsy;' balamanó

róm, 'a Greek Gypsy.'

The Gypsies themselves call malkóch a tribe of their own countrymen, who continually roam from village to village, particularly in Asia, working in brass and iron, and who, on the score of religion, are always of the profession of the village where for the time they work. Should a child be born whilst in a Greek village, it is baptized, and in the next circumcised. They travel to Jerusalem, and there become hadjis, 'pilgrims.' They are industrious, and are considered by their fellow-countrymen as wealthy. I have never been able to ascertain any other denominations peculiar to their tribes, though I have repeatedly questioned Gypsies from various parts of Turkey.

GYPSY TENT-katúna.—This term is applied by the Gypsies in general to the black and dirty tents used by their nomadic fellow-countrymen in their roaming expeditions. They bear no resemblance to the ordinary tents used by Mohammedans in their wars or military expediditions. These Gypsy tents are formed by a pole raised from the ground, of rather more than the height of a man, and supported at its two ends by other poles. Over this horizontal pole is thrown the covering, blacked by the soot and smoke of the fires, and under this frail covering squat the family, with a host of naked and loathsome offspring. So frail and light is this tent, that many of them are placed upon a single horse, and so transported from place to place. Katúna has no relation to any of the terms for 'tent' belonging to the countries in which the Gypsies live. I refer it to the Sr. katin, 'matted, screened,' from kata, 'a mat, a twist of straw or grass,' 'a screen of the same.' Pl. katunés. Katunénghoro róm, 'a Gypsy of the tents,' as distinguished from those living in villages and never roaming; katunéngheri romní, 'a Gypsy woman of the tents.'

H.

Habitation—bashipé; Bor., bestipén.—

To inhabit—besháva; Bor., bestelar.—These words are doubtless connected with the Sr. roots vas, 'to dwell, to inhabit,' and vic, 'to enter, to settle, to sit.' Bistó som, 'I am sitting.' Bashipé is from this verb, by the change of i into a, and the addition of the usual particle pé, which we have already explained. Kamabeshés otiá but divés? 'wilt thou stay there many days?' beshéla bashé mánde, 'he resides near me.' Borrow defines bestipén as meaning 'wealth, riches.' Let the reader remember that the Latin possideo, 'to possess,' and possessio, express the idea of 'sitting, residing upon' what is our own, and, in course of time, the property itself. So that we can with perfect propriety translate bestipen 'possession.'

Hall kukudi.—This is a Greek term, *κουκκούδιον, diminntive form of κόκκος, 'a grain, any small body.' It is applied by the Greeks to small pustules on the human body, and to the kernels of fruits; Lat.

acinus. In this latter case, the word is written **vov*xoutζον* and **vov*-2001ζιον. The Gypsies accent this word on the final syllable, differing much from the universal pronunciation of the Greeks themselves.*

HAIR—bal; Br., bala; Bor., bal.—The Sr. bâla, to which I have referred in speaking of Foot, is applied by the Gypsies exclusively to the hair of the head. Compare the Lat. pilus, Fr. poil. Pakó isi, ná teréla bál, 'he is bald, (and) has no hair: plur. balá, rarely used; Mr.

Brown's word is in the plur. form.

HALF-yekpásh; Bor., pas, pasque, majara.-My own term for 'half' is a compound, having the well known Sr. numeral eka, 'one,' prefixed to a word corresponding to Borrow's pas. The latter part may be referred to the Sr. paksha, 'a side, a half.' The Gypsies of Turkey, unlike those of Spain, constantly join it with yek, 'one,' like the English 'one half, a half.' It is found in the terms yekpasharátti, 'midnight,' yekpashdivés, 'noon.' The third term given by Borrow is related to Sr. madhya, 'middle.'

HAMMER—sivri; Br., sivree; Bor., casto.—The etymology of this term is unknown to me. Casto appears to be from the Sr. kash, 'to strike, to torment,' part. kashta, 'the striker, the instrument of striking.'

HAND—vást; Br., domuk; Bor., chova, bas (plur. bastes).—The Sr. hasta signifies 'hand.' Borrow explains chova as derived from charpata, 'the palm with the fingers open.' This explanation is extremely improbable. Bas, bastes, are evidently related to the above Sr. hasta, and not, as Borrow indicates, to the Persian bazu, as that is from the Sr. bahu, 'arm.' Mr. Brown's term, domuk, is 'fist.' Té shukiovél mó vást, 'let my hand become dry' (i. e. 'paralyzed'); bivasténghoro, 'without hands' (i. e. 'workmen').

HANDFUL—burnék.—This appears to be the Persian burnuk, or burenk, 'res acquisita, reposita, thesaurus' (Vullers, Lex. Pers.). It is a very

common term among the Gypsies.

HARE—shoshói.—Sr. caça, 'a hare, a rabbit.' This is one of the many words which the Gypsies have inherited directly from their Hindu ancestors, and has no connection with the names generally given to this animal by the other Indo-European nations.

HARLOT-lubní, nublí; Br., lobnee; Bor., lumi, lumiaka.—The Sr. adjective lobhinî, from lobha, 'appetite, lust, desire,' signifies 'the desirer, the enamored,' and generally, 'one given to illicit passions.'

To have—teráva; Bor., terelar.—Following the analogy of formation of Gypsy verbs, it is most natural to refer this word to the Sr. verbal root tri or tar, 'to pass over, to cross,' also 'to prevail over, to preserve.' Its signification, however, connects it rather with dhri, dhar, 'to hold, to keep.' O devêl terêla lênke, 'God has (i. e. 'care') of them;' from the Greek έχει δ'αὐτούς, i. e. φροντίζει; teráva te penáv

+ It is a singular coincidence that the Armenian word hair is, in orthography and pronunciation, precisely the English word hair.—Th. ; "Wast, wass, hand." Arndt, p. 382.

^{*} The Armenian word gargood is nearer this Gypsy sound of kukudi, and all these forms probably have a Sanskrit origin. The Greek words introduced into the Armenian are but slightly changed except in the gutturals.—Tr.

túke, 'I have (i. e. 'I intend') to speak to thee;' teráva dúi chavén, 'I have two children;' teráva yék grást, 'I have a horse.'

Head—sheró, shoró;* Bor., joro.—I refer these words to the Sr. ciras, 'head.' Mé sheréste, 'in my head' (i. e. 'mind'); továva mó shoró, 'I

wash my head;' gheraló shoró, 'a scabby head.'

Healthy—shastó; Br., sastó.—I refer this word to the vulgar Sr. çasta, 'fortunate, commendable, excellent,' part. of the verbal root gas, 'to bless, to wish good to, to confer a benediction.' It is very natural to pass from this meaning to that of health. To many Gypsies the term is unknown, and in its stead they use the Turkish sagh, 'healthy, strong, entire.' Shasto manush, 'a robust man;' but shasto, 'very healthy.' Shusto means also 'the right hand,' precisely as the Turks use the above sagh for 'the right side:' katakó shastó teréla vés te rúk, 'on the right it has a mountain and trees.'

To HEAR—shunáva; Bor., junar.—From the Sr. root cru, 'to hear,' present *crinomi*, which has been changed by the Gypsies into shunava, by throwing out the semivowel r of the root. A similar example of the rejection of r we shall presently see in shingh, 'horn.' Aor. shunghióm, 'I have heard:' shunghióm ti pólin (πόλιν) kamajés, 'I have heard that thou wilt go to the city;' té ná shunél, só té penén léske, 'and not to hear what they may say to him;' na shunél, 'he does not

hear' (i. e. 'hc is deaf').

HEART-oghi, onghi.-For want of a better derivation, I am inclined to refer this Gypsy term to the Sr. angu, 'a limb, member.' Kaméla m' oghí te lav, 'my heart desires to take;' dikáva ká terésa oghí te khás, 'I see that thou hast heart (i. e. 'appetite') to eat;' oghéske, 'for the soul,' i. e. 'alms,' also 'religious austerities for the salvation of the soul.'

Hear—tattipé.—Formed from the adjective tattó, 'warm,' Sr. tapta, by the addition of the usual particle pe. In the place of this word I have frequently heard tabioipé, from the same Sr. root tap, 'to heat.'

Heavy—baró.—We shall have occasion to notice a similar word, in speaking of stone. The Sr. bhâra, 'burden, weight' (Gr. βάφος), has in this term been changed into an adjective by the Gypsies.

Heel-kfúr, khúr.—This belongs to the Sr. khura, 'a hoof, a horse's hoof, the foot of a bedstead: with no other Sr. term can it be so reasonably identified. The pronunciation is very peculiar, nor do the

above consonants accurately indicate it.

Hen-kainí, kagní, kainá; Br., kahnee; Bor., cani.—I derive this term from the Sr. hansa, 'goose,' fem. hansî, whence our $\chi \eta \nu$, cutting off the final s, Eng. goose, Lat. anser, cutting off the initial consonant, Germ. gans and hahn, Slav. gus' and gonsi. Another Gypsy term, gustó, 'goose,' referred to by Borrow, confirms this derivation. A Gypsy woman told me that kainá means 'hen,' and papina, 'goose.' But I suspect that the latter is our common πάπια, 'a duck.'t

HERE—até, avatiá.—The relation of these terms to the Sr. is not perfectly clear. Até may be related to atra, 'in this place, here,' which,

^{* &}quot;Scheré, tscheré, cheru, 'kopf.'" Aindt, p. 382.

⁺ Geese in Roumelia are an article of extensive traffic with the Gypsies.

like many other Sr. words, in passing into the Gypsy idiom, has dropped its r (Section IV). The second term, also a common one, may have been formed in a manner similar to divés, avdivés; it is more Zend. avadha, 'here,' from the Sr. ava, is probably intimately related to avatiá. Até isí tó dát? 'is thy father here?' na isómas até, 'I was not here.' Attár, 'from here,' ἐδῶθεν, is a corruption of atiatár, or atetár:—tár is the usual particle forming the ablative cases of Gypsy nouns, the Gr. Gev; see Grammar, Section V.

To Hold—astaráva.—This verb I refer to the Sr. root stri, 'to spread, The initial a of the Gypsy verb is an addition often obto strew.' served in Gypsy words, and common also to the Turks, who can never pronounce a word beginning with st without adding a vowel.* Astardó, 'held, seized;' astardiló, 'he was taken;' nastí astarghiómles, 'I could not seize him;' kána astarghiánles? 'where didst thou take it ?'

Hole-kháv.-We have already explained the verb khatáva, 'to dig.' From the same Sr. root khan comes khani, 'a mine;' it is applied however to whatever is dug, or excavated. Kháv has been formed by

the change of the final n into v.

Honey—avghin.—This appears to be a Persian word, abgin, 'a bee,' and abgin khané, 'apiarium, alveare' (Vullers, Lex. Pers.). It is singular that the Gypsies should have abandoned the ordinary Sr. madhu.

'honey,' and adopted this new and foreign term.

Horn-shingh; Bor., singe, sungalo.—Comp. the Sr. gringa, 'a horn.' The Gypsies have rejected the liquid r in many syllables containing it. The pronunciation of this liquid, in many cases, resembles that of the French at Paris, where the r is often a dead letter to a foreign ear, and at times appears like a liquid l. Borrow defines sungalo 'a he-goat,' evidently analogous to the Sr. cringing, 'a ram,' literally 'horned.'

Horse—grást;† Br., gras; Bor., gras, gra.—

MARE-grastní; Br., grasnee; Bor., grani.-These terms I derive from the Sr. verbal root gras, 'to eat, to feed.' This conjecture of mine may be confirmed by an example from the Greek—φορβάς, 'mare, cow,' from φέρβω, 'to nourish, to feed, to graze.' For the formation of the fem. grastní by the suffix ni, see Section V. Lachó grást, 'a good horse; aklé grastésa allián? aklésa, 'with that horse didst thou come? with that (horse)'; lachó grást isí, 'it is a good horse;' terélu deshé grastén, 'he has (i. e. 'owns') ten horses.' Grastéskoro, 'of the horse,' or 'horseman,' also grastanó, εππικός, grái among the Wallachian Gypsies; grastoró, 'a small horse.' The reader, in pernsing my remarks on the formation of feminine nouns (Section V), will be convinced of the correctness of writing this word with a final t, which has been omitted in both Mr. Brown's and Mr. Borrow's terms.

House—ker; Br., kerr; Bor., quer.—This term may be related to the Sr. agara or agara, 'house, residence.' The change of gh to k is confirmed by agosto, changed to querosto, 'the month of August' (Bor.).

^{*} See the definition of number six.

^{† &}quot;Grei, 'cheval.'" Vaillant, p. 363. ‡ "Ker, 'maison.'" Vaillant, p. 363.

Keráva nevó kér, 'I am making a new house;' ich isómas mé pralés-koro keréste, 'yesterday I was in my brother's house;' tó tát tó kér isí? 'is thy father in the house?' baró kér, 'a large house;' tapiló o kér, 'the house was burnt;' mó kér isí baró, 'my house is large;' mokavdó kér, 'painted house;' kaléskoro isí o ker?' 'whose is the house?' mé praléskoro kér, 'the house of my brother;' isóm tó kér, 'I am in the house,' or keréste, 'in the house.'

How MANY—kebór.—Kebór chavén terésa? 'how many children hast thou?'

How Much—keti.—Compare Sr. kati, 'how many, how much,' a word related to ka, the interrogative pronoun. This term has the same uses and significations as the Sr. term. Keti divės terėsa trėsca? 'how many days hast thou the intermittent fever?' keti isánas sávvore? 'how many were you all?' keti bérsh kerghián tó rashái? 'how many years didst thou make with the teacher' (i. e. 'pass in school')? keti chavén teréla? 'how many children has he' (or 'she')? keti bershénghoro isi, 'how old is he' (i. e. 'of how many years')? keti lové dinián? 'how much money didst thou give?' This word is often used in the quantitive case; as keténghe liliánles? 'for how much didst thou take (i. e. 'buy') it?' bishénghe, 'for twenty.'

To be Hungry—bokáliováva.—Compare the Sr. verb bhuj, 'to eat, to enjoy,' bubhukshu, 'wishing to eat, hungry.' Bokaló, 'hungry.' bokaló isóm, 'I am hungry.' The verb is formed from this adjective and the verb aváva, and is in constant use in this form. Te bokaliovéla arakéla manró, 'and should he be hungry, he finds bread.'

I.

To increase—bariováva.—A verb in the mid. voice, from baró, 'great,' and aváva. Só keréna te chavén? bariovávalen, 'how are thy children? I am increasing them' (i. e. 'I am rearing them'); barióna o rúk, 'the trees grow' (i. e. 'increase').

Infant, Young—tiknó.—This term is used often, like chavó, 'a child,' and rakló, 'a young one.' Ketí tiknén teréla? 'how many children has he' (or 'she')? tá e tikné isí melalé, 'and the children are dirty:' here the word is used without reference to a mother or a father. Penghiás yek tiknés, 'she begat a young one;' in the same manner a Greek may say εγέννησε ενα μικούν. Muló o yek tiknó, 'the one child died;' achilé o dúi, 'the two remained.' Fem. tikní: tiknía terésa? 'hast thou female children?'

To inhabit—See habitation.

Invalid—naisváli; Br., nashvalli; Bor., merdo.—The first two terms are composed of the negative na and vali, the meaning of which we shall examine. The s is euphonic. The Sr. bala means 'power, strength, an army;' compare also the Slav. velii, and velikie, 'strong, powerful.' The etymology of this term is elucidated by the Lat. debilis, 'invalid,' formed by the neg. de and the word bala, 'strength.' Borrow's word, merdo, is from the Sr. part. mrita, 'dead, mortal:' among the Gypsies, as with us in the term μαφαινόμενος, it means 'emaciated, wasting.' Our ἄψψωσιος and ἀσθενής, and the Slav. nemozénie, from the neg. ne and mogú, 'to be strong,' have the same

formation with the Gypsy naisváli. Mr. Brown's term should be written with one l. To many Gypsies this term is totally nnknown, and in its stead they use namporemé, a Greek word, composed of the neg. na and ἐμποςῶ, 'I can, I am able.' Nampórema, 'sickness' (δὲν ἐμποςῶ, 'I am unwell'). They have adopted the word from the Greeks, using ἀνεμποςιαν, instead of ἀσθένεια. Such incongruous combinations of terms from different languages, often remarked even in cultivated European languages, are entirely excusable among the ignorant Gypsies. Me isómas namporemé, 'I was sick.'

Inon—shastir, shastri; Br., sastir; Bor., sas.—The Sr. çastra signifies 'a weapon made of iron,' and 'iron' itself; it is from the root ças, 'to wound, to kill.' Keréla shastir, 'he makes (i. e. 'he works') iron'; shastiréskoro, 'a worker in iron;' to shastir, 'in iron' (i. e. 'in prison').

ITCH—ghér; Bor., guel.—

ITCHY—gheraló.—The Sr. nonn gara is 'poisonous drink, a poison, sickness, disease; 'garala, from the same root, is 'venom' in general, and appears to have given origin to gheralo. In the word given by Borrow, guel, we observe the transmutation of the liquid r into l. That this general name should have been applied by the Gypsies to a special disease, naturally affords a presumption that the disease was a common one among them, or among the people with whom they had interconrse. Such is the case with the Gypsics, and with the common people of the countries where they have passed, or among whom they have settled. Vermin, scabby heads, loathsome rashes, and the itch, are the usual companions of poverty, filth, and ignorance. It is no wonder, then, that they should have applied the term 'poison' to this particular disease. It is well to remark that the common people of the East, like other people of similar education elsewhere, attribute most of their diseases to internal poisoning, remnants of former medical theories. Borrow defines garipé, another similar word, as meaning 'scab.' In this sense gheralo is used by some Gypsies, as mo shoro gheralo, 'my scabby head.' This is properly a Greek expressionψώρα, itch; ψωριασμένος, 'one affected with loathsome cutaneous eruptions.' Ghér, pronounced jél, I have heard applied to the small pox by some Gypsies. It is from the same base as ghér.

J.

Jew—jut.—This is from the Turks, who call these people jehud and chifut, by way of contempt. Yahudi is also another term in use among the Turks, corresponding to the Greek 'Ιουδαῖος. The Greeks now always call them 'Εβραῖοι (pron. 'Οβραῖοι). Pl. jutné, 'Jews;' jutní, 'a Jewish woman;' jutanó, 'Jewish;' jutoró, ,a young Jew;' jutnióri, 'a young Jewish girl;' brakerésa jutanés? 'dost thou speak the Jewish language?'

K.

To KICK—lahtdáva.—The Gr. λαπτίζω can hardly have given origin to this Gypsy verb, as it has become altogether obsolete among the people, and in its stead we use κλωτίζω, 'I kick.' Only the educated of our nation make use of λαπτίζω. The Persian has leked zeden, 'to kick,

calcitrare,' to which this Gypsy verb can be referred: many Gypsy words are intimately related to the present Persian. I know of no Sr. word to which the Persian can be referred. The verb is a compound one: dáva, 'I give,' serves to form also some other verbs.

King—tahkar, taakar; Bor., crallis.—My word resembles the Pers. khatkiar, 'king, ruler,' with transposition of the initial consonants, or more probably with rejection of the initial kh, which is pronounced so gently by the Gypsies as often not to be heard at all. Even in pronouncing tahkár, the h is so gently aspirated as to be virtually omitted, and in fact many Gypsies pronounce the word as I have written it in the second form. The Sr. chakravat, 'an emperor,' may bear relation to this term, as perhaps also to the Persian. Crallis is the Slav. kral, 'a king,' so common among the nations that speak the Slavonic dialects. The absence of a well defined root in all these definitions evidently goes to prove that the Gypsics, in leaving their country, and coming among people under regular regal power, had no appropriate word to express the idea of a king, as he appeared to them in their gradual peregrinations westward. Their word rajan we Takaréskoro, 'of the king;' takarní. shall meet in 'nobleman.' 'queen.'

Kiss—chumí, chám; Bor., chupendi.—

To Kiss—chumidáva.—We have here a word easily referable to the Sr. root chumb, 'to kiss.' The final b has been dropped by the Gypsics, precisely as the Greeks pronounce the Ital. ampula, ampola, 'a small flask,' ἀμουλα. Lióm tutár yek cham, 'I have taken from thee a kiss' (i. e. 'I have kissed thee'). Chumidáva is compounded of chum and the verb dáva, 'to give.'

ΚΝΈΕ—κόςλ.—Gr. κότζιον and κότζι, generally applied to warts, often to small bones, and at times to bones in general. The Greeks say πονοῦν τὰ κότζιά μου, 'my knees pain me.' By the Gypsies the term has been applied exclusively to the knees. Plur. kochá, 'knees.' It is a term well known to all Gypsies, and probably comes from the Slav.

kosť, 'bone.' Me kochá dukénaman, 'my knees pain me.'

KNIFE—churí; Bor., chuló, chori.—From the Sr. root chhur, 'to eat, scindere, secare.' Borrow's first term is formed by a commutation of the liquids, so common in all languages. Bari churí, 'a large knife.'

L

Lame—pankó, pangó.—

To LAME—pangheráva.—We find in the Sanskrit pangu, 'lame, crippled, one who has lost his legs.' Pangheráva, 'to lame, to make one lame,' is a compound verb, formed from pangó and the verb keráva, 'to make.' K before n is constantly changed to gh; the form is properly pan-keráva. Of pangó united to the verb aváva is formed another verb, panghiováva, in the middle form, often heard among the Gypsies: 'I have become lame;' χωλαίνομαι. Panklióm mo pindó, 'I have lamed my foot.'

^{*} This word has a close resemblance to the Armenian word for 'king,' takavór, derived from tak, 'crown.'—Ta.

To LAUGH—asáva.—Compare Sr. has, 'to laugh.' I shall have occasion to show in the following Section that the Gypsies commute the Sr. gutturals for soft aspirates, and reject these latter in many words. In hearing them pronounce such aspirated words, one doubts whether the word should be written with or without an aspirate. So asésa?

'why dost thou laugh?'

LEAF—patrin; Bor., paroji.—The Sr. patra signifies 'a leaf,' and, as in our language, 'any thing light, like a leaf:' it means also 'wing.' From this are probably derived Slav. pero, 'wing,' Germ. feder, Eng. feather.* Borrow's form is much changed from the original, and indicates what I have said above, that the Gypsies of Turkey have preserved their language in greater purity than their fellow-tribes in the

West. This term is used at times for 'branch.'

To LEARN—shikliováva.—A verb in the middle voice, compounded of shikló, 'instructed,' and aváva. We have the Sr. root çiksh, 'to learn, to acquire knowledge;' çikshâ, 'learning, or the acquisition of knowledge.' I have never heard the verb excepting in this middle form. Like μανθάνω, it is at times neuter, and at times transitive: 'I myself learn, I study,' and 'I make others learn, I instruct.' Kamáva ta shikliováv katár allé, 'I wish to learn whence came;' akaná kaména te shiklion (for shikliovéna), 'now they wish to learn;' tá ná isánas oté ta shikliovés, 'and thou wast not there to learn;' kárin shikliló (3rd p. aor.), 'where did he learn' (i. e. 'study')?

LEATHER—morti; Bor., morchas.†—The Sr. mûrti, from which originate these two terms, is defined to mean 'matter, substance, solidity, any definite shape or image.' Here, by the Gypsies, the word is often applied to sheepskins before undergoing the operation of tanning,

ποοβέα, ποοβιά. Mortiákoro, 'a worker in leather.'

Lie—khohaimpé; Bor., jojana.—Connected with the Sr. kuhaka, 'deceiver, hypocrite,' kuhaná, 'hypocrisy.' Khohavnó, 'a liar, one who deceives,' pronounced often khohanó. I have no doubt that khohaimpé is formed from khohanó, khohanipé having been corrupted into khohaimpé; since all the abstract nonns ending in pe are formed from adjectives or participles. From this adj. khohavnó is formed khohávniováva, 'to be cheated, to be deceived.' Chachipanés o manúsh kayék far nána khohávniovél, 'in truth man would never be deceived.'

Light—lokó.—From the Sr. laghu, 'light;' Gr. ¿haxòs.

LINEN—yismata.—Used always in the plural form. It designates that part of dress which can be subjected to washing; Eng. linen, It. biancheria, Gr. ἀσπρόφουχα, 'white garments.' Tovde yismata, 'washed clothes.'

Lip—vúst; Br., ushta.—This is the Sr. oshtha, 'lip.' We shall explain the term múi, 'month,' in its proper place. Respecting the addition of v at the beginning of words, the reader will see in Section IV.

LITTLE—khandi.—The Sanskrit word khanda signifies 'a part, a portion, a fragment.' That the Gypsy term means properly 'a portion

^{*} Armenian pedúr.-Tr.

or part,' there is no doubt, and the transmutation of the word 'portion, fragment' into an adverb, 'little,' is corroborated by both the Greek and Turkish languages. Κόμμα, from κόπτω, and its diminutive κομμάτιον, are universally used by the Greeks of the present day in the sense of 'little;' as δός με κομμάτιον, 'give me a little.' The Turks say bir parchá şu ver, 'give me a little water' (lit. 'give me a piece of water'). Khandisi, often to be heard, is khandi-isi, 'a little (it) is,' used for 'it is not enough.' Khandi is used also as an adjective, Lat. parvus, Gr. δλίγος. Déman khandi pani, 'give me a little water;' chikhandi, 'in a little while,' Gr. ἐντὸς δλίγον (καιφον understood); khandi varó, 'a little flour;' khandi piúsales, khandi khásales, o yavér kerásales kerál, 'a little we drink, a little we eat, (and) the rest we make (into) cheese;' khandi achiló te meráv, 'I came near dying' (i. e. 'little was wanting'); khandí divés, 'few days.'

To LIVE—jiváva.—This is undoubtedly related to the Sr. root jîv, 'to live,' which is to be traced in some of the Indo-European languages, and particularly in the Slavonic (zývu, 'I live'), which has preserved so many of the Sr. roots in their utmost purity. It is used also in the sense of 'inhabit,' similar to the usage of the word in other languages: ἔξησα ἐν Εὐφώπη, 'I lived in Europe, j'ai vécu en Europe.'

To LOSE—nashaváva; Bor., najabar.—There seems to be an intimate connection between this Gypsy verb and nasháva, 'to depart.' Both have their origin from the Sr. root naç, 'to destroy, to annihilate, to lose.' Borrow's najipen, 'loss, perdition,' is from the same.

Louse—juv.—We have seen, in speaking of BARLEY, the transmutation of the Sr. y into j: yava, Gypsy jov, 'barley.' We might with perfect reason seek the origin of this term in a Sr. word having a similar initial consonant, viz. yaka, 'a louse.' Plur. juva, 'lice.'

M.

To Make—keráva; Bor., querar, querelar.—This is the well known Sr. root kri or kar, 'to make, to do,' which can easily be traced through the Persian, Greek, Latin, and other cognate European languages: comp. Pers. kerden (Sr. inf. kartum), 'to make, to do;' Gr. κοαίνω, whose ancient signification was 'to do, to accomplish;' Lat. creo, 'to create.' The Gypsies of Spain, like those here in Turkey, have preserved the pure sound of the initial radical consonant. Some Gypsies here pronounce the word as though written gheráva. The signification which I have given above is the most general, both in the Danubian provinces and in Turkey. The word has, however, another, contracted from the colloquial usages of the Turks, who employ their verb yapmak, 'to make, to do,' in the sense also of 'building:' yapý yapárym, 'I am building.' The Greeks also, in imitation of the Turks, frequently join to their verb κάμνω, 'I do,' the Turkish yapý, saving lant zaurw, 'I am making a building.' Though the Sr. verb has an extraordinary latitude of meaning, and though it may reasonably be applied to any verb expressive of action, still I am inclined to think that many of its definitions among the Gypsies of Turkey should be elucidated and explained by the colloquial usages of the Greeks and Turks, with whom they are constantly associated. Gypsies in Turkey never hear any other language, Turkish or Greek, but the most vulgar and corrupted, for they are debarred from polite society, which they themselves also avoid. Keráva nevó kér, 'I am making a new house;' lachés kamakerén, 'they will do well,' pronounced by others kamkerén, or kakerén (see Section V); so keréna te chavé? 'what are doing thy children' (i. e. 'how are thy children')? só te keráv? 'what can I do?' the và xáuw; so kerghián? 'what hadst thou done?' ker túya yavréske, 'do thou also to others?' tu kerghiánles? 'didst thou do it?' so kerés? 'how art thou?' a usual salutation: Gr. the xáuves?

Man—manúsh;* Br., manush; Bor., manu, manus, maru, marupé.—
From the Sr. manusha and manushya, 'man, a human being,' manushi,
'woman, the companion of man:' among the Gypsies, romni is now
in general use in the latter sense. It comes from the root man, 'to
think, reason, examine.' In Borrow's third form the n is changed
to r; in his fourth appears the terminal pe, elsewhere pen: marupe,
'mankind,' ἀνθωπότης. Amaré manushénghere, 'of our men;' shastó
manúsh, 'a robust man;' isámas penínda manúsh, 'we were fifty
men;' sarré o manúsh, 'all the men,' and 'all men;' manushénghe,
'to the men.'

MARE.—See HORSE.

MARKET-PLACE—fóros; Bor., foros, foro.—This term reminds us of the Latin forum, which signified anciently 'the market-place,' and was afterwards given to certain cities, as the Turks call many towns from the market fairs held there. Among us the term $\phi\phi_0$, 'a duty, impost,' comes from the Sr. bhâra, 'a weight, burden.' Borrow defines his two words 'city,' Sp. ciudad. The Sr. pura and purî both mean 'city,' preserved in the names of many Indian cities, as Hastinapoor, Singapoor, etc. By a customary change of p to f comes the present Gypsy term, which the Gypsies here sometimes use for 'city,' but more often for 'market-place.'

Marriage—biáv, piáv.—This is of Sanskrit origin, though it has a Persian form, like some other words, as deryáv, 'sea,' vasiáv, 'mill.' The Sr. root vah, 'to carry, to bear' (L. veho, Gr. οχέω), means also 'to marry, ducere uxorem.' When joined with the preposition vi it has constantly the signification of 'marrying,' as in vivâha, 'marriage,' vivâhita, 'marricd.' Very probably these words have given origin to biáv. It is a common term, and, united to keráva, 'to make,' it means 'to marry, to celebrate a marriage.' Kumakerés biúv? 'wilt thou make marriage' (i. e. 'art thou to be married')? te praléskoro biavesti, 'at the marriage of thy brother;' tumaró biáv isi? 'is it thy marriage;' kána kamovél o biáv? 'when will the marriage be?'

MEAT—mas; Bor., maas, mang.—The origin of these terms is clear. I refer them to âmisha, 'meat, food, anything eaten with bread;' compare Slav. mast, signifying 'fat,' which the Bulgarians have changed to méso, understanding by it 'meat;' Goth. mats, Eng. meat,† Albanian mishe, misht. Kodas and Lat. caro are connected with another Sr. word, kravya, denoting for the most part 'the flesh of

^{* &}quot;Manusch, rom, gadshe, 'mensch.'" Arndt, p. 375. † Armenian mis.—Tr.

wild animals.' Besides the above amisha, there is another term, mansa, 'flesh, food,' from which originates Lat. mensa, signifying sometimes 'the table,' and sometimes 'the food upon the table.' To this I refer the Eng. mess, mess-mate. So keréna? mas biknéna, 'what are they doing? they sell meat;' maséskoro, 'a butcher;' londé masá, 'salted meat;' avdivés mas khása, 'to-day we eat meat' (not a

day of fasting).

MILK—tut, sut; Br., sout; Bor., chuti.—This word Mr. Brown designates as Turkish sud, 'milk.' But the comparison of the three terms gives a better explanation of their etymology. In the definition of BREAST, we have spoken of the Sr. root chush, 'to suck.' Derived from that root, the present terms signify properly 'what is sucked from the breasts.' I may add that there is no known Turkish word in the vocabulary of Borrow. Gudló tut, 'sweet milk; sudró tut, 'cold milk.'

MILL—vasiáv.—A Persian word, which, like many others derived from that language, has been preserved almost nnaltered: asya, 'a mill-stone,' anciently, and more properly, asyab, or asyav, to which the Gypsies have only added an initial v. All the Persian dictionaries of an older date write the word asyab, and such was probably the pronunciation of the Persians when the Gypsies passed through their country. Ghiv gherghióm to vasiáv, 'I have carried grain to the mill.'

MISERABLE—chungaló.—This adjective, applied to persons in distress as an expression of commiseration, corresponds to the Turk. zavál and the Gr. κακόμοιφος. It is extremely common among the Gypsies. Fem. chungali. Though apparently of Hindn origin, I have not been able to refer it to any Sr. word. Chungali rakli, 'the miserable daughter.'

Money—lové.—This term is mostly used by the Gypsies in the plural number: lové, 'money' in general. They make use, like the natives, of pará, and ghrush, the Turk piastre. Me lové liné, 'my money they have taken;' keti lovén dinián? 'how much money hadst thou given?' linián te lovén? 'hadst thou taken thy money?' keti lovén teréla? 'how much money has he?' or, 'how much is he worth?'

MONTH—chon, masék; Bor., chono.—We shall speak of chon in speaking of moon. The Gypsies, like many other nations, use the same word for 'moon' and 'month.' Compare Gr. μήνη, anc. 'the moon, the half moon;' μήν, 'month;' Lat. mensis. Chon is used by the Moslem Gypsies, imitating their coreligionists the Turks, who say ay, 'moon, month.' Masék, the second term, is from the Sr. màsika, 'monthly, relating or belonging to a month;' it is in very common use among the Christian Gypsies. Compare Slav. miesiach, 'a month.' In this word appears plainly the tendency of the Gypsies to make use of adjective forms, instead of substantive. Similar examples we see in mouse, well, etc. Keti masekéngoro isi? 'of how many months is she' (i. e. 'pregnant')? yek masekéstar nápalal, 'after a month.'

Moon—chon;* Br., chon; Bor., chimutra, astra.—The derivation of these words is a little obscure, as the difference hetween the two first and Borrow's is considerable. Mine and Mr. Brown's are derived from the Sr. chandra, 'moon.' The second word of Borrow, astra, is a name given to the moon precisely as we often call the moon

αστρον τῆς νυκτὸς, 'star of night.'

Mother—dái, dé; Br., dy; Bor., day, chinday.—Dy, prononneed dái, is a child's pet term for its mother, as Borrow testifies in his vocabulary, under the word day, remarking that this word, sometimes applied hy children to their mother, signifies 'nurse.' Dais is used hy the Christian inhahitants of these countries, sometimes for 'father,' mostly however for 'nnclc' and 'benefactor.' The derivation of this word is very obscure, and that it has any relation to the common Sr. mâtri, 'mother,' does not appear to me probable. It is pronounced dái and tái. Mi dái, 'my mother;' me daiákori lové, 'my mother's money;' ti tái isí keréste, 'thy mother is in the house.'

Mother-in-law-See Father-in-law.

To MOUNT—ukliáva.—This verb may be referred to the Sr. root kram, 'to go, to walk, to step,' with the preposition ut, 'up.' Oklistó, 'mounted:' this term is applied to a young man who has heen presented to his future hride, and has gone to her house. The Greeks have the same term, ἀνεβασμένος, 'gone up,' i. e., to the house of the bride.

Mouse—mishakos. mushó.—Derived evidently from the Sr. műsha, műshaka, műshika, 'mouse, rat,' from the root műsh, 'to steal.' We find this word in many languages: Gr. μῦς, μυΐσκος; Lat. mus, muris; Slav. mish'; Germ. maus; Eng. mouse.† Ker mushó, 'house-rat:'

here the term approaches nearer to the Sr. musha.

Mouth—múi.—Compare the Sr. mukha, 'mouth.' The final guttural kh has been dropped, as in nái, 'nail.' from nakha. From this term múi, hy the addition of al, is formed the adverh muyál or muiyál, 'on the face, in front, from the front.' Pelióm muyál, 'I fell on the face.'

Much—but; Br., bout; Bor., bus, baribu.—This may possibly be referred to the Sr. puru, 'much.' The common and most usual words in a language are frequently most metamorphosed. But is used as an adjective and an adverb. But manushé, 'many men;' but chavé, 'many children;' but romnía, 'many women;' but lové, 'much money;' but dukélaman, 'it pains me much;' but nashéla, 'it goes well;' but lachés, 'very well;' but vuchés, 'very high.' At times it is heard as butló, 'much.'

Mucus of the nose—lim.—This word is extremely common among the Gypsies. I refer it to the Sr. lip, 'to anoint, to smear,' whence limpa,

'smearing, anointing.'

Mun—chik, chiká; Bor., chique.—The only Sr. word to which I am able to refer this term is chikila, 'mud, mire,' from the root chik, 'to obstruct.' Borrow defines chique as 'earth, ground,' a natural transi-

^{* &}quot;O-tchanda, 'la lune.'" Vaillant, p. 457. "Tschon, schon, tschemut, mrascha, 'mond.'" Arndt, p. 366.

† Armenian moog.—Tr..

‡ "But, 'longtemps.'" Vaillant, p. 363.

tion of meaning of the word. Isi ko drom but chiká, 'there is in the road much mud.'

To MURDER—murdaráva.—We have often had occasion to refer to the Sr. root mṛi, 'to die,' whence comes this transitive, precisely as the Germ. morden, Eng. murder, Fr. meurtre. Murdaráva tut, 'I murder thee,' a common expression in the mouth of a person intending to strike another; murdarghiómles, 'I have murdered him;' aor. nápalal murdarghiáles, 'afterwards he murdered him.' This verb is used also of the killing of animals. When applied to fire, it signifies 'to quench:' murdaráva i yak, 'I quench the fire;' murdár i yák, 'quench the fire.'

Musker—pudinó; Bor., púsca.—Both these terms are Slavonic, from the verb pushtáyu, 'to send, to throw out, emittere.' I have spoken to many Gypsies about the word púsca, which they constantly avoid, as foreign to their idiom. Púsca is known only to the Bulgarians, who use it in common with the Russians. Mo pudinó isi inglis, 'my musket (gun) is English.'

N.

NAIL, FINGER-NAIL—nái; Bor., ungla.—Borrow's word is from the Latin ungula, * 'hoof,' from the common unguis, 'nail.' The Spanish is uña. My own term is from the Sr. nakha, 'nail.' Borrow has in his vocabulary another term, turra, 'nail,' unknown to me.

Naked—nangó.—This is easily referable to the Sr. nagna, 'naked.'

Name—nav;† Bor., nao.—There is hardly an Indo-European word that is so general in its occurrence. Compare Zend nāman,† Pers. nam, Lat. nomen, Gr. δνομα, Goth. namu, Slav. nma, Bulg. ime. The final syllable of nāman has been changed into a simple v by the Gypsies of Turkey, whilst those of Spain have changed the whole syllable into o. This change of m into v we shall have occasion to observe in other words. Ē chavéskoro nav, 'the child's name;' e pashéskoro náv, 'the pasha's name.'

NAVEL—pol.—The usual term among the Hindus for 'navel' is nåbhi or nåbhila. It has given birth to Pers. naf, Germ. nabel, Eng. navel. As to this Gypsy word, I am unable to give any satisfactory account of it, unless we suppose that the first syllable nå has been thrown off

by the Gypsics from the second term nabhila.

NEAR—bashé, pashé; Bor., sumpacel.—Concerning the etymology of this term I can form no probable conjecture. Bashé to len, 'near the river;' bashé túte, 'near thee; kaléste bashé dulevésa (Gr. δονλείω)! 'near whom workest thou?' bashé to bahtzé (Turk. baghche), 'near the garden;' bashé mánde, tuménde, lénde, 'near ns, you, them;' bashál, 'from near.' Sumpacel, Borrow's word, is a phrase common among the Gypsics, formed of sun, imperative of sunáva, 'to hear,' and bashál. It is an order to 'go and be attentive,' lit. 'hear from near.' I have frequently heard it. Pott has fallen into the same error as Borrow, in considering it a simple term. Ja ta sun pashál, 'go and hear from near.'

† "Nam, 'nom.'" Vaillant, p. 180.

^{*} Armenian ungunk.-Tr.

⁺ Arm. anun.-TB.

NEEDLE—See to sew.

NEGATION-na, nanái, nastí, ma; Br., nee; Bor., na, nanái, nastí, ne.-There are few words in all the range of the Gypsy language so clear and well defined as these terms. Na is the Sr. na, a particle of negation. Na, in Gypsy colloquial usage, is employed principally with verbs: as na janáva, 'I do not know;' na kamúva, 'I do not wish;' na isámas oté, 'I was not here;' na pakiáva, 'I do not believe;' na dikliómles, 'I did not see him; nái, isi tindó, 'no, it is thine.' They never say nanái dikliómles, or nanái janáva. In the subjunctive, na is inserted between te and the verb; as te na dikáv, 'that I may not see;' te na jav, 'that I may not go;' te na khél, 'that he may not It is to be observed in adjectives: as naisvali, 'invalid;' naisukár, 'not handsome;' namporemé, 'sick.' Nanái is properly used to express negation joined to the third person of the anxiliary verb isóm, 'I am,' which is always understood: it means properly 'it is not.' It has evidently taken the place of the following nasti, which by the Gypsies is applied to other usages. Nanái is a reduplication of na. Nanái mindó, 'it is not mine;' nanái lachó, 'it is not good;' nanái but phuró, 'he is not very old;' ta na kamniovél nanái lachés, 'not to perspire is not well;' nanái palvál, 'there is no wind;' nanái khohaimpé, 'it is not a lie.' Nastí is evidently the Sr. nasti, 'it is not,' from na and asti, the 3d pers. sing. of the verb as, 'to be,' Gr. tore. The Persian has a similar phrase, nist, composed of the neg. ne and est, 'is.' So also the Slav. niest, 'non est,' used in this form. Nasti is defined by Wilson 'non-existence, not so, it is not.' The Gypsies, however, have given this definition to nanái, and have reserved nasti to express impossibility or difficulty. Having lost all traces of its proper signification, it is now applied by them to all persons indistinctly, and to all numbers, whilst the similar phrase in Persian retains its proper signification. Nasti astarghiómles, 'I could not seize him; nasti kerávales, 'I cannot do it; amén nasti kerásales, 'we cannot do it;' nastí sováva, 'I cannot sleep;' nastí piráva, 'I cannot walk'—and in a similar manner with all the persons and tenses of a verb. It is never used except with verbs, and the inflection of the verb itself shows the person speaking. Ma is a particle which, like the Gr. $\mu \eta$, is always prefixed to the imperative. It is the Sr. $m\hat{a}$, a prohibitive and negative particle, chiefly prefixed to verbs in the imp. mood; as må kuru, 'do not do.' With the Gypsies, though heard sometimes alone, as the modern Gr. µ1, 'don't,' it supposes a verb which by the speaker is not uttered. Ma ker túya, 'do thou not also; ma déman armán, 'do not curse me; ma kush, 'do not revile;' ma vrakér, 'do not talk;' ma ja, 'do not go;' ma dik, 'do not look;' ma sun, 'do not hear;' ma kha, 'do not eat;' ma le, 'do not take'; ma pi, 'do not drink.' With the exception of this negative particle, there is a striking similarity between mine and Borrow's terms.

NEW—nevó; Bor., nebo, nebel, ternoró.—With the exception of ternoró, all these words are from the Sr. adj. nava, with which correspond the Gr. véoc, Lat. novus, Slav. nov'ie, 'new, young,' and many other similar words in the present spoken languages of Europe. Nebel of Borrow has been formed from the primitive Sr. in a way similar to the Lat.

novellus from novus. Ternoró will be explained under Young MAN. Nevó ker, 'new house;' nevó gav, 'new village;' nevé yismata, 'new clothes.'

Night—rat, ratti, aratti; Br., rakilo; Bor., rachi.—The Gr. ros, Lat. nox, Slav. nosht, correspond with Sr. nakta, 'night.' These terms have left no traces in the Gypsy language, which has preserved the more usual Sr. râtri, 'night.' By the assimilation of r to t, so common in modern languages, it has become rat, 'night,' and ratti, 'in the night-time,' Lat. nocte. Mr. Brown's rakilo is the 3d pers. aor. passive, 'it is getting dark.' Ratti seems to be a remnant of a locative case. This term is sometimes pronounced with an initial a, aratti. This initial a is less common here than among the Gypsies of Spain. Yek rat, 'one night;' yekpasharát, 'midnight;' saró rat,

'every night.'

No one-kayék jenó.—This term, extremely common among the Gypsies, is composed of two words, the relation of which to the Sanskrit is extremely evident. The latter word is never used alone. Kayék seems to be the Sr. ekâika, 'singly, one by one,' from eka, 'one,' repeated. Like the Gr. *avels, from *av eis, 'no one,' so likewise this word among the Gypsies is at times affirmative, and at times negative. Negat.—kayék jenó na janéla man, 'no one knows me;' nasti dulavéna (Gr. Soulsto, 'to work') kayék jenó, 'no one can work.' Affirm. -te kamniovél kayék jenő lachés isí, for one to perspire is a good Kayék alone signifies 'no one,' Fr. aucun, personne: kayéke, 'to no one :' kayéke manushe, 'to no man,' Gr. slς κανένα ἄνθρωπον ; kapenáv túke yek lav, ta na penésles kayéske, 'I will tell thee a word, but thou shouldst not tell it to any one.' This term, in receiving the particle ke, is pronounced kayékske and kayékke; the latter is the proper mode. Kayék is joined to other terms: as kayék far, 'sometimes, never;' po kayék far, 'oftentimes.' Jenó is evidently the Sr. jana, 'man,' individually or collectively, 'mankind,' from the root jan, 'to be born;' compare Pers. jins, Lat. genus, Gr. yévos, etc. I have never heard it used except in connection with kayék.

Nobleman—rúi.—The peculiar circumstances in which the Gypsies are placed in these countries have made all foreign words of this category of little use to them. The common terms among them for persons ennobled, either by wealth, education, or political authority, are pure Turkish. Even the lowest order of the Greeks rarely use any but the Turkish terms, as agha, efendi, pasha, and the like. Εὐγενής, εὐπατρίδης, etc., are totally unknown to them. I once asked an illiterate Bulgarian, what 'famous' meant in their language. He gave me the word chorbadji, i. e. 'the magistrate of a small rural district.' Gypsies, however, have retained this word rái, referable to the Sr. rajan, 'a king, a monarch, a prince.' It is applied particularly to those persons of their clan who are set over them by the local Turkish authorities, as collectors of the capitation-tax and other duties due to the government. It is also given to the head men of their corporations. Those foreign to their tribe are called by their usual Turkish titles. This term is not known to all. The wife of the råi is called ráni, Sr. rájnî, so common to this day for the wives of the Rajas and other native rulers of Hindustan. E rayéskoro chavó, 'the

child of the Rái; dikáva e rayés, 'I see the nobleman.'

Nose—nak; Br., nak; Bor., naqui, pavi.—The first three of these words are derived from the Sr. nas, 'nose,' nasika, 'nostril.' Some Gypsies use the word rutunt for 'nose;' it is the Gr. ρωθώνιον, dim. of ρώθων, 'nostril.' To a great many of them nak is unknown. The pavi of Borrow is unknown to me.

To NOURISH—parvaráva.—This is the verb of which the word parvardó, given above for fat, is properly a participle. Perhaps a more plausible etymology than is there proposed for it may be found in the Sr. root bhri, 'to bear, sustain, nourish,' with the prefix pari or pra.

Now—akaná, okaná; Bor., ocana, acana.—This term, common and well known to all the Gypsies, both in Spain and Turkey, I compare with the Sr. akshna, 'time;' the Sr. ksh being constantly changed by the Gypsies to k. There is another cognate Sr. term, kshana, 'a moment.' By the prefixion of an a, as in avdivés, 'this day, to-day,' the word would signify 'this moment,' resembling the Gr. r'woa, 'this hour, now.'

NUMBERS .-

one—yek; Br., yak; Bor., icque, iesque, ies.—From the Sr. eka, 'one.'
The Pers. has the same form, in yek, 'one.' In the Greek, the word
eka is to be found in ξεάτεφος, a comparative form of eka, Sr. ekatara
—ξεαστος, ξεάστοτε.

rwo—dúi;* Br., duy; Bor., dui.—From Sr. dvi, 'two,' with which correspond the synonymous arithmetical terms of Europe, as Pers. du,

Gr. δύω, Lat. duo.

THERE—tri, trin; Br. triu; Bor., trin.—From the Sr. tri, 'three.' Trin is the Sr. neuter trini. Both these terms are used. The Pali has tinni, 'three' (Essai sur le Pali, p. 92).

FOUR-ishtar; Br., ushtar; Bor., estar.—The Sr. chatur is here changed

more than the preceding terms.

FIVE—panch; Br., pandji; Bor., panche.—Sr. pancha, 'five.' This Gypsy word is nearer the original than the corresponding term of any other language, and in Spain and Turkey it has been preserved almost unchanged.

six—shov; Br., sho; Bor., job.—Sr. shash, 'six.' The Greek has laid aside the initial sh, the Latin has preserved it: £5, sex, 'six.' Slav.

shesht.+

seven—eftά; Br., efta; Bor., efta.—From the Sr. sapta, 'seven.' Here also the Greek has laid aside the initial s of the Sr. At first sight one would think this word to be onr ἐπτὰ, commonly pronounced ἐφτὰ. So too the Persian heft. The eftά of the Gypsies presents the natural change of p into f, to euphonize with t, a change daily heard among us, as vulgar rather than classical, but regular among the Persians. The ancient Greeks made a similar change, saying ἔβδομος, ἐβδομήκοντα, instead of ἔπτομος, ἐπτομήκοντα (Bopp). Compare Zend haptan, 'seven,' changing the initial s to h, whence the Pers. heft, as above.

^{* &}quot;Dúi, 'deux.'" Vaillant, p. 379.

[†] The Armenian has vets, and, in combination, vesh: as veshdasan, 'sixteen.'—Tr.

EIGHT—ohtó; Br., ohtó; Bor., ostor, ottolojo.—Sr. ashta, 'eight.' Compare Zend ashtan, Pers. hesht, Gr. òzrò, Lat. octo, Germ. acht.

NINE—iniya; Br., iniya; Bor., eñia.—Sr. nava, 'nine.' In Greek we have prefixed the vowel e for the sake of euphony, and the Gypsies i.

TEN—desh; Br., desh; Bor., deque.—Sr. daça. The Gypsies of Turkey have preserved the original word better than those of Spain, who approach nearer the languages of Europe; Gr. dexa, Lat. decem,*

Slav. desyat.

ELEVEN—desh-i-yek; Bor., esden-y-yesque.
TWELVE—desh-i-dúi; Bor., esden-y-duis.
THIETEEN—desh-i-tri; Bor., esden-y-trin.
FOURTEEN—desh-i-ishtar; Bor., esden-y-ostar.
FIFTEEN—desh-i-panch; Bor., esden-y-panche.

SIXTEEN—desh-i-shov; Bor., esden-y-jobe.

SEVENTEEN—desh-i-eftá; Bor., esden-y-estar. Eighteen—desh-i-ohtó; Bor., esden-y-ostor.

NINETEEN—desh-i-inia; Bor., esden-y-esñe.

Mr. Brown has omitted the above numbers.

TWENTY—bish; Br., bish; Bor., bis.—The form of this number, from the Sr. vinçati, resembles the Pers. bist, which preserves the final consonant t.

THIRTY—tránda; Br., otrenta; Bor., trianda.
FORTY—saránda; Br., saranda; Bor., estardi.
FIFTY—penínda; Br., paninda; Bor., pancherdi.
SIXTY—shovardéri; Br., showar; Bor., joberdi.
SEVENTY—eftavardéri; Br., eftawardesh; Bor., esterdi.

EIGHTY—ohtovardéri; Br., ohtowardesh; Bor., ostordi. NINETY—iniyavardéri; Br., iniyavardesh; Bor., esnerdi.

In Mr. Brown's term for 'sixty,' showar, the final desh has been

omitted by mistake.

The first three terms of Mr. Brown and myself, and the first of Borrow, are the common forms of our Modern Greek numbers, used by the common people, which the Gypsies in passing through or residing here have adopted, while they have rejected the others. The remainder are formed regularly from the numerals with the addition of desh, 'ten.' In my glossary the sh of desh is changed into ri; in Borrow's the final desh is changed into di.

HUNDRED—shil, shel; Br., shevel; Bor., gres.—The first two are related to the Sr. cata, 'hundred;' the origin of gres is unknown to me.

TWO HUNDRED du shél.

THREE HUNDRED-tri shel.

THOUSAND—milia; Bor., milan.—From the Lat. mille. This is foreign to the Sr. sahasra, 'thousand.'

I have not given the Sr. numerals, as the reader can easily obtain them from the ordinary Sr. grammars.

† Armenian hasar or hazar, of Sr. origin.-Tr.

^{*} Armenian dása, and in composition dasán; as medasan, megdasan.—Tr. † For those unacquainted with the Modern Greek, it may be well to say that these numerals have been modified as follows: τριάποντα we call τριάντα; τεσσαράποντα, σαράντα; πεντήποντα, πενήντα; έξήποντα, έξήντα, etc.

The Gypsy numerals, when joined to nouns in the accusative case, receive a final e; deshé grastén teráva, 'I have ten horses;' shelé bakré teréla, 'a hundred sheep he has (owns).'

Nut-akhór, akór.--

Nut-tree—akhorin, akorin.—The Pers. kerdu has relation with the Gr. κάφυον and καφύδιον, 'a nut.' The Sr. term to which it may most probably be referred is akota, 'the betel-nut-tree' (Areca faufel, or catechu). It is here used for the fruit of the great walnut tree (Corylus avellana), so common in every part of Turkey.

0.

Oln—phuró, phurú, puró, furó; Br., pooree; Bor., puró.—This is a pure Sr. word, pura, 'former, more ancient.' By the addition of pe is formed puripé, 'old age.' O phuró kaméla ta dikéna to phuripé, 'the old man desires that they should see (i. e. 'nurse') him in his old age.' Fem. purí: i romní léskéri isí purí, 'his wife is old.'

OLD, ANCIENT—puranó.—From the Sr. adj. purána, 'old, ancient.'
Among the Gypsies it has also the signification of 'old in age,' like
the preceding purú. It is frequently to be heard, and is often inter-

changed with the preceding term.

To grow old—phuriováva.—A compound verb, from phuró, 'old,' and aváva: lit. 'to become old;' Gr. γηφίσκω, Lat. senesco. Te phurióla te dikénales e chavé, 'when he becomes old, the children should nurse

(lit. 'sec') him.'

Opposite—mamúi.—A compound word, from the poss pronoun ma, mo, 'my,' and múi, 'mouth.' Similar expressions are common in many languages: compare Pers. ru-be-ru, 'opposite,' lit. 'face to face;' Fr. en face; It. in faccia. Kon isi mamúi mánde? 'who is opposite me?' mamúi to gáv, 'opposite the village.' Mamuyál, 'from the opposite side,' is formed like other similar adverbs, by the addition of al: mamuyál aváva, 'I come from the opposite side;' pelióm mamuyál, 'I fell on my face.'

Onion—purum.—A very common word among all the Gypsies: plur.

purumá.

OTHER—yavér; Bor., aver, avél.—This term can be referred to the Sr. apara, 'other.' The p has been changed to v, and the semivowel prefixed to the initial a, as in many other Gypsy words. Ma ker túya yavréske, 'do not thou also to others:' yavréske, a clipped form of yaveréske; e yavréskero romní, 'and the other's wife;' te penás améya e yavréske t' avéna, 'that we also may communicate (lit. 'say') it to others, in order that they may come;' diklióm e yavrés, 'I saw the other (one).'

Oven—bov. This term is applied to the furnace, to lime-kilns, and to the oven for baking bread. Its origin is not clear. E bovéskero na pekéla mo manró, 'the baker does not bake my bread;' e bovéskero na

délaman manró, 'the baker does not give me bread.'

Over the water.—perdúl, predúl.—This is used precisely as the Greeks use πέρα and πέραν, 'in another place, between which and the speaker there is a sheet of water.' Perdúl is in the ablative form of adverbs. It is not solely confined to this signification. Jáva perdúl, 'I go on

the other side.' It supposes another term perd, which may be referred to the Sr. paradeça, 'a foreign country,' from which has heen elegantly formed the Gr. παφάδεισος, Pers. ferdus, and all the cognate terms of the European languages. Perdál tan, 'a place on the farther side.'

Our—avri; Bor., abri.—Prohably derived from the Sr. bahis and bahir, 'out, outside.' By transposition of letters it hecomes avri. Dikáva avri prágmata (πράγματα), 'I see strange things;' avriál, 'from the outside, out of:' avriál to ker nastótur, 'after they departed out of the house;' avrutnó, 'a foreigner,' Gr. εξωτεφικός: avrutnó manúsh, 'a foreigner, a stranger, a man not of the Gypsy race.'

Ox-gurúv, guri; Br., ghuree; Bor., gorbi.-

Cow—guruvni, gurumni; Br., ghurumnee.—The Sr. go or gâu signifies 'the ox kind in general;' this is preserved in the Gr. γά-λακ(τος), Lat. lac, lactis, anciently denoting 'the milk of the cow.' We have also in Sanskrit gaura, gauri, signifying 'a huffalo.' This Gypsy term has suffered alterations for which it is difficult now to account. The feminine is pronounced as I have written it. It is regularly formed, by the addition of ni, the common termination of feminine nouns. Kapucháv léstar te kaméla te kinél gurumni, 'I shall ask him if he wishes to buy a cow;' i gurumni isi mindi, 'the cow is mine;' parvardi gurumni, 'fat cow.'

Р.

Pain—duk; * Bor., duquipen, duga, dua.—

To be in PAIN—dukáva.—These terms are from the Sr. duhkha, 'pain, sorrow, affliction.' The first term given by Borrow is formed by the addition to the noun of the suffix pen: he defines it 'grief.' Duk teráva, 'I have pain;' dukélaman, 'it pains me;' dukéna lákari chuchía, 'her breasts pain.' This verb at times means 'to be in love:' hence dukhaipé, 'love;' dukhaní, 'a mistress;' dukéla m'oghí, 'my heart loves;' duk e devlés te oghésa, 'love God with thy heart.'

To paint—makáva.—Possibly from the Sr. maksh, 'to fill, to mix, to combine.' This term is applied by the Gypsies to the painting of houses, the smearing of women's faces with rouge or other colors—a practice extremely common among the young women—the painting of the eyebrows and eyelashes with black, and the like. Makavdó, part., 'painted, besmeared:' mo ker isi makavdó, 'my house is painted;' makavdé pová, 'painted eyebrows;' bimakavdó, 'not painted.'

Pantaloon—dimí, dimísh: plur. dimnía and dimía.—Dimía isí buglé, 'the pantaloons are large;' dimialó, 'wearing pantaloons, braccatus;'

bidimnialó, 'without pantaloons.'

Paper—lir, lil; Bor., li.—The Sr. likh means generally 'to write, to draw;' likha, 'one who writes,' or 'what is written,' and hence, 'what is written upon,' as paper, iron or stone tablets, etc. The Gypsies of

^{*} Armenian dukhrootiane, root dukhr. The Armenian language loves to increase the guttural sound, and often changes h, and even k, into the strongly aspirated guttural kh; and, what is more singular, it generally changes the liquid l of foreign languages into the deep guttural ghad or gh; e. g. $\lambda a \zeta a \rho o s$, ghazaros.—Ta.

Turkey have corrupted the word by adding an r, and changing it at times to l. In Spain they have cut off the final syllable, or, more properly, it is changed to an i, and blended with the foregoing onc: compare Sr. mukha, Gypsy mui. Compare Slav. list, 'leaf, page.' This term is also used in the sense of 'epistle:' picharáva lil, 'I send a letter.'

Partner—amál.—A Persian word, hemal, 'companion,' Mod. Greek σύντροφος. Though used as 'companion' is in English, it is more generally applied to those who work together, as partners in business. Torghióm man amál, 'I have taken a partner.'

To pass—nakáva.—Evidently related to the Sr. naksh, 'to approach, to

arrive at.'

Passover—patranki; Bor., pachandra, ciria.—This is undoubtedly a corruption of the Gr. πάσχα or πασχαλία, 'Easter.' The word cannot be Bulgarian, as this people have retained uuchanged the Gr. term páskha. The second word given by Borrow, ciria, may have originated from the Greek κύριος οr κυριακή, 'Sunday,' 'the Lord's day.' The Greeks very frequently call Easter λαμπρά, 'glorious, resplendent.'

Pear—ambról.—

Pear-tree—ambrolin.—This is a Persian word, from emrud, and enbrut, 'a pear,' from which comes the Turkish armud, 'a pear.' Names of trees terminate in in. The reader will see a few other examples in this Vocabulary.

Perspiration—kamlioipé, kamnioipé.—This appears to me to be of pure Sr. origin. I have noted both forms of the word, since they are equally common. Kamilióm, 'I have perspired,' supposes a present kamáva, which, however, I have never heard: for it is used kamló isom, 'I am perspiring,' from kamlo, 'perspiring, in perspiration,' and kámniováva, kamliováva, from the same and aváva.

Piastre—astaló.—We have met with another word in the Vocabulary, lové, 'money,' in use among the Gypsies. This is frequently used for 'piastres' in the plural, as is the Turk. ghrush in the singular. I know of no clue to the etymology of the term, unless it can be referred to Pers. astar, 'pondus quoddam indefinitum et varians, quum hie decem, illie sex drachmarum cum semisse ponderi aequet. Vox e Gr. aranho corrupta esse videtur' (Vullers, Lex. Pers.). It does not resemble any of the terms used by the natives herc. Plur. astalé: ketí astalé terésa te désman, 'how many piastres hast thou to give me' (i. e. 'owest thou')? yek astaló, 'one piastre;' eftá astalé, 'seven piastres.'

To PIERCE—chinkeráva, chingheráva.—This word signifies 'to perforate, to cut through, to pierce with a sharp sword.' It is a compound verb, made up of chin and keráva, 'to do.' Chin I refer to Sr. chhid, 'to divide, to cut, to split.' Aor. chingherghióm, 'I have pierced, I

have wounded.'

Pit—gúva, khar.—The first of these terms can be referred to the Sr. gupti, from gup, 'to hide,' meaning 'hiding, a hole in the ground, a cavern.' As to the other word, khar, I leave to others to say whether it can be referred to khan, 'to dig,' a verb which has given sundry words to the present Gypsy language (see well). Bashé to bahtzés (Turk. baghché, 'garden') isí yek khar, 'near the garden is a pit.'

Pity—bezéh.—This is a Persian word, beze, 'crimen, peccatum, injuria, violentia' (Vullers, Lex. Pers.). It is used by the Gypsies as the Greeks use their κοίμα, 'pity, commiseration.' Bezéh chorénghe, 'pity to the poor;' Gr. κοίμα είς τοὺς πτωχοὺς: i. e. 'the poor are to be

pitied.' The plural, bezéha, is very rarely to be heard.

PLACE—tun.—From the root sthâ, 'to stand,' Gr. Tornut, Lat. sto, sisto, comes the noun sthâna, which is so frequent in the Persian language, as stan: eompare gulistan, 'a place of roses;' hindistan, 'the place of the Hindus,' etc. It is natural that a term so common in so many languages should have left traces of its existence in the Gypsy language. Among the Gypsies it has precisely the same signification as among the Hindus. Kamajáv me tanéste, 'I shall go to my (native) place;' so penéna to tan? 'what do they call thy place?' In this sense tan is more generally used than gáv, 'village.' Peryulikanó tan, 'a foreign place (land).'

PLATE—charó.—Î refer this term to charu, from the root char, 'to eat,' signifying 'an oblation of rice, barley, and pulse, boiled with butter and milk for presentation to the gods or manes; and the vessel in which such an oblation is prepared.' The word charó is now used for plates of wood, metal, or clay, in which the Gypsies eat, but more commonly an ordinary plate of red elay, in which poor people take their food. Plur. charé: aklé tanéste keréna charé, 'in that place they make plates;' khor charé, 'deep plates;' charéskoro, 'a plate-

maker.'

To PLAY (on instruments of music)—keláva, gheláva.—This I refer to the Sr. kal, 'to sound, to throw or cast:' kalatâ, from this root, is 'melody, music.' The consonant k is often changed to gh.

Plum-kiláv.-

Plum-tree—kilavín.—The origin of these terms is to me unknown.
Plum. kilavá, 'plums.'

Pomegranate—daráv.—

Pomegranate-tree—daravín; Bor., meligrana.—This word appears to be connected with the Sr. dârava, 'wooden, made of wood,' Lat. ligneus, from the word dâru, 'wood, timber.' Borrow's meligrana is connected with the Ital. melagranata and the Spanish granada.

Poor—choró.—Connected with the Sr. chivara, 'the tattered dress of a Bauddha mendicant, or of any mendicant.' Bopp defines it "vestis pannosa." It may be connected also with another Sr. term, chîra, 'a rag, an old and torn cloth.' So kamakerên e choré? 'what will the poor do?' choripé, 'poverty:' but chitára choripé, 'I suffer (lit. 'I draw') much poverty;' me choriákeri, 'of me the poor (woman).' The word is applied to a poor man and to professional beggars by the Gypsies here in Turkey. Fem. chorí; dim. chororó, 'a beggar boy.' Choró I have heard used for 'an orphan.'

To PRAISE—asharáva.—This transitive verb I refer to the Sr. root arch, 'to worship, to honor or treat with respect, to praise.' Pass. asharávaman, 'I praise myself,' ἐπαινοῦμαι; asharghiómman, 'I have praised myself;' so asharéstut, 'why dost thou boast' (lit. 'praise thyself')?

ashardó, 'praised:' ashardó isóm, 'I am praised.'

Pregnant—kanni; Br., kannee; Bor., cambri.—Related to the Sr. garbhini, 'a pregnant woman,' from garbha, 'an embryo, a child.'

Teréla chavén? na, isi kanni, 'has she children? no, she is pregnant.'

Tereta chaven? na, isi kamni, 'has she children? no, she is pregnant.' Priest—rashāi; Bor., erojay, arajay.—Borrow defines these terms "friar, frayle" (Span.). By the Gypsies of Turkey the name is given to the ordinary priests in the churches, and is an equivalent of the namās of their coreligionists the Greeks. They often also apply the term to the διδάσκαλος of the Greeks, following in this respect the usages of the Christian inhabitants of Turkey, among whom, till a few years ago, the priest was always the teacher (διδάσκαλος) of the village, and was called indiscriminately by the inhabitants both "priest" and "teacher," παππᾶς and διδάσκαλος. I am not aware of any word among the Gypsies for the order of monks as distinct from this denomination of rashāi. Rashaní, 'the wife of the rashāi.' As priests are frequently married in the villages, the term of course is given to the priest's wife; Gr. παππαδία.

No Sanskrit term can have given origin to this word but rishi, 'a saint, a sanctified personage,' and I accept it, on account of the similarity of sound, and of the idea of sanctity attached to the term both

by Hindus and Gypsies.

Prop—pikaló.—A long stick, used in loading pack-horses; it supports the weight of one side before the other is loaded.

PUDENDUM VIRILE—kar.—I know of no satisfactory derivation of

this term, which however appears to me of Hindu origin.

PUDENDUM MULIEBRE—minch.—This term does not appear connected with the Sr. madana. It appears to be related to terms such as mingo, δμίχω, μίγνυμι; this latter often implying carnal connection. Compare Sr. miçr, 'to mix, to mingle,' mih, 'to sprinkle, effundere, praesertim mingere.' It is proper here to remark that in all languages such terms have usually been difficult of derivation, owing to the indelicacy of the subject, and because they have been altered and distorted according to the unchecked inclination of the most vulgar of the people.

O

Quick, Quickly—sigó; Bor, singo,*—This term may be referred to the Sr. sanga, 'meeting, encountering, joining, uniting,' if it does not rather come from sighra, 'swift, quick.' It is used at times for 'often.' Dikésales sigó, 'dost thou see him often?' sigó ker, 'a quick ass;' sigó sigó, 'yery quickly.'

R.

It RAINS—déla.—This term is the 3d pers. sing. of the pres. tense. It is difficult to find a Gypsy who can give the first person of the verb. According to the formation of the Gypsy verb, which I shall explain in Section V, déla is the 3d pers. sing. pres., désa, 2d pers., dáva, 1st pers., 'I rain.' Dáva I refer to the Sr. und or ud, 'to wet, to moisten, to be or become wet.' From this verb comes uda, 'water;' compare

the Gr. 3805, 38wo, and Slav. voda, 'water.' The Latin unda has preserved the n of the root. The Gypsies have cut off the initial syllable of the Sr. root. Kamáva te del, 'I wish it would rain;' but déla

avdivés, 'it rains much today.'

RAIN—brishindó, burshín; Bor., brijindel.—Comp. Sr. prish, 'to sprinkle, to pour out water;' also vrish, 'to sprinkle, to pour out, to rain.' In the Gypsy, b has taken the place of the Sr. initial. Borrow explains brijindel by the Sr. purana (pūrana), which, though meaning sometimes 'rain,' is generally used for 'perfection, a work well wrought out,' etc. But brishindó, 'much rain.' Burshín is less frequently used.

Raisin—porik, porikin.—The same confusion exists among the Gypsies as to the signification of this word as among the Greeks, from whom undoubtedly the Gypsies have borrowed it. 'Οπώρα, in ancient Greek, designated that time of the year in which fruit ripened, from July to November; ὁπωρικὸς, 'autumnal' and 'matured;' ὁπωρικὸν aud 'πωρικὸν we now call the fruits themselves, applying the term particularly to esculent fruits growing on trees, and these trees, formerly called ξύλα κάρπιμα, we now call ξυλοκαρπία, in order to distinguish them from trees giving no fruit. Πωρικὸν is a very vague term, and the Gypsies very rarely can agree to what fruit or particular tree the word porikin should be applied. I have heard it applied to plums, to plum-trees themselves, and very often to raisins and figs. Porikin is similar in formation to kilavin, 'plum-tree,' and ambrolin, 'pear-tree.'

Red—loló; Bor., lolo, lole.—Compare Sr. lohita, 'red, reddish, blood.'
The Gypsies have preserved the first syllable, which they have doubled. Borrow defines the word in his vocabulary 'tomato,' the well known vegetable called by us τομάτα. The rejection of whole

syllables is common in many languages.

To REJOICE—loshániováva.—A verb in the middle voice, composed of loshanó, 'rejoicing,' χαιρόμενος, and aváva. It is a very common verb among the Gypsies. I refer it to Sr. lush, 'to adorn, to decorate.' This verb I have never heard excepting in the middle form. Loshanoipé, 'joy.'

To REST—acháva.—This I refer to the Sr. root ach, 'to go to or towards, to worship.' Ach devlésa, 'rest thou with God,' addressed to persons

departing; achardó isí, 'he has remained.'

To REVILE—kusháva.—This may be connected with the Sr. kuça, 'wicked, depraved, mad, inebriate,'* resembling the Gr. κακὸς, which has given origin to κακίζω, 'to revile one as a bad man.' Ma kush, 'do not revile.'

RICH—baravaló.—This may be referred to Sr. prabala, 'strong, power-

ful.' Isí kilavdó, ta but baravaló, 'he is fat, and very rich.'

To RIDICULE—prasáva.—This is a compound term, composed of the prep. pra and has, which we have defined: see to LAUGH. It is rare in the Gypsy language to meet with verbs united to prepositions. Even in modern Greek there has always been a tendency among the

^{*} Armenian kesh, 'bad, wicked.'-Tr.

more uncultivated of the people to strike off all those prepositions which vary the primary signification of the verb. The same remark is also applicable to the Bulgarians, as regards their mother Slavonic.

Ring, finger-ring—angrusti, angustri.—The form is Persian, though it has been borrowed from the Sr. anguri or anguli, 'a finger, a toe;' angushta, 'the thumb:' Pers. engiusht, 'finger;' engiushter and engiushteri, 'finger-ring.'

RIPE—mulanó.—

To RIPEN, to become RIPE—mulanokeráva.—Of doubtful etymology.

RIVER—len; Bor., len.*—This is one of many Gypsy words whose derivation, at first sight, is not so palpable as that of many others. But it may plausibly be referred to the Sr. root li or ri, 'to dissolve, to flow.' Bashé to len, 'near the river;' sigó len, 'a swift river.'

Road—drom; Bor., dron, drun.—Some light may be thrown on the derivation of this word by the Gr. δοέμω; δοόμος, 'a road.' This Gr. term has its origin from the Sr. dram, 'to go, to move;' and probably the same Sr. root has given origin to these Gypsy words. Bugló drom, 'a wide road.'

Rop—rubli.—Applied to represent the common Gr. &αβδίον, dim. of &αβδίον, 'a rod,' and denoting something larger and stouter than the

ran, 'switch, cane.' Of its origin I know nothing.

Root—korin.—A Bulgarian word, very common among the Gypsies: Bulg. kóren, 'root;' Slav. kóren', 'root.' Erukéskero korini, 'the root of the tree.' This term is by some Gypsies used for the 'bark,' corresponding to the Slav. korá, 'bark;' Gr. φλοιός.

Rope—shelo.—Compare Sr. culla, 'a cord, a rope, a string,' and its

cognate culva, of the same signification.

Russian—moskovis.—The ordinary term used by the Turks, moskov, 'a Russian;' Gr. μόσκοβος. The Greeks also often call them ψώσσους.

S.

SACK-kisi.-Probably the Turkish kiesé, 'sack, bag.'

Saddle—zen.—A Persian word, zen, 'a saddle,' often written zen-i-asp, 'saddle of the horse.' This term, as used by the Gypsies, is properly 'a saddle upon which a person can ride;' for 'a pack-saddle,' they have adopted the Turkish semer, as have the Greeks, σαμάφι. Chorghia tumaré kheréskoro i zén, 'they have stolen your ass's saddle.'

Salt-lon; Bor., lon.—These two identical words I refer to the Sr. lavano, 'salt, mineral and marine.' Hence, as with us, it significs

'salted, well seasoned or flavored, any fluid containing salt.'

To salt-londaráva.—From the above lon. It is a transitive verb.

Londarghióm, 'I have salted.'

To be sated—chaliováva.—A compound verb, formed of chal and aváva. Chal appears to me to be the verb char, 'to go, to graze,' which I have had occasion to explain in speaking of to graze. As char by the Gypsies is nsed for 'grass,' and for 'the grazing of animals,' it came very naturally to correspond, in course of time, to the χορτάζω and χορταίνω of the Greeks. United to the usual aváva, like

^{* &}quot;Lom, 'ruisseau.'" Vaillant, p 364.

most of the middle verbs of the Gypsy idiom, it has become chariováva, and, by the commutation of the liquids, chaliováva. These words literally mean 'I have grazed.' Ta kháva khandí chaliováva, 'and though I cat little, I am sated;' chaliovéla, 'he is satiated.'

To say—benáva, penáva; Bor., penar.—There are two Sr. verbal roots to which this verb may be referred: bhan, 'to say, to speak,' and pan, 'to praise:' the former of them is much the more likely to be the original of the Gypsy term. The 3d pers. of the present, benéna, is used frequently as an impersonal: 'it is said, they say;' Gr. λέγουν, λέγεται. Benéna ki o takár kamuló, 'they say that the king has died;' so kamésa te penés mánghe? 'what dost thou wish to say to me?' na penéna chachipés, 'they do not speak the truth;' na penghiómles, 'I did not say it;' ma pén, 'do not say' (i. c. 'speak'); penghióm yavréske t' avén, 'I told the others to come.' This term is generally pronounced benáva, very rarely penáva.

To scratch—khanjováva, khandiováva.—This verb can be referred to the Sr. kandů, 'itehing, seratching.' It is in the middle voice, and means 'I scratch myself.' The neuter is khanjáva, 'I scratch.' By some Gypsies the word is pronounced khandiováva, approaching nearer to the Sr. form. The change of k into kh is common.

Scythe—fárkia.—This term appears to belong to the Wallachians, from whom the Gypsies have borrowed it. As the language spoken in Wallachia and Moldavia is a corrupted Latin, springing from the language of the Roman legions settled in those parts by the Roman emperors, falx, 'a sickle,' may have given origin to this term, with commutation of the liquids. Compare also Pers. evrak, 'falx foenaria.' The Latin origin appears to me the more probable. Some Gypsies, instead of this word, use kosa, the Bulgarian word for 'scythe.'

Sea—deryáv, mára; Br., daráv; Bor., loria.—This is a Persian term, derya and deryab, very usual also among the Turks. It significs 'a sea,' and at times 'a river,' or 'any great collection of water.' By the change of d into l has been formed Borrow's word. My second term, mára, I have repeatedly heard from Moslem Gypsies. It is the Sr. vári, 'water,' Slav. móre, Lat. mare. Though derya is usual among the Turks, it is never to be heard except in a high flown style, very rarely in conversation; and certainly it can never have come to the ears of the rude Gypsy, who hears only the usual term of the people, deniz, 'sca.' Mára may have been learned from the Slavonic nations, and the Bulgarians particularly, who still make use of it: móre, 'sea.'

Secretly—choryál.—Formed from chor, 'a thief, a robber,' and in the ablative form, like many other adverbs. Secresy and robbery are always intimately united: compare *λεψίνος, *λεψίφςων, Mod. Gr. *λεφτάτα, 'secretly;' Fr. furtivement. Choryál diniómles, 'I struck him secretly.'

To see—dikava, dikhava; Bor., dicar, dicar.—I know of no Sr. verb to which this term may be so reasonably referred as to drig, 'to see, to behold,' Gr. diagram. We have had occasion to notice in many instances the omission of an r, and the conversion of the Sr. sibilant g into the guttural k. The second form of Borrow, diar, resembles the pronunciation of many Turkish Gypsies, who give the word as though

written dikháva, and diháva, diáva. In fact, the aspirate h is so gentle as to be scarcely heard. This pronunciation of the guttural k. or rather its mutation into a soft aspirate, cannot be attributed to any local usage of the Gypsies, acquired from the natives, as it is prevalent only in the Asiatic provinces of Turkey, in the west of Asia Minor. Dikiniló, 'he appeared;' dikióla, 'it appears;' dúi manushé diklióm, 'two men I saw;' te na dikáv, 'that I may not see;' diklióm-la yek divés, 'I saw her one day;' dikáva léskere chavén, 'I see his children.'

To sell—see to buy.

Serpent—sapp.—The Sr. sarpa, 'a snake, a serpent,' from the root srip, 'to glide, to creep.'* The Gypsies have assimilated the r to the following p, as in many other like cases (see Section IV). The term is extremely common in all the eognate dialects of the Sr.: compare Lat. serpens, It. serpe, Fr. serpent, Gr. εορης and εορω, by the aspiration of the initial s, so eommon among the Greeks. "Ogus is probably derived from Sr. ahi, 'a snake,' by the eommutation of the aspirates (Bopp).

To sew-siváva.-

NEEDLE—súv; Bor., jutia.—Both these terms have a common origin, from the Sr. root syû, siv, 'to sew,' Lat. suere, Slav. shiyu. Compare

also Sr. sûchi, 'needle,' from a cognate root sûch, 'to sew.'

To shave—muntáva; Bor., palabear.—The origin of this word is very elear; it comes from the Sr. root mund, 'to grind, to cut the hair, to shave.' Its derivatives have all a similar meaning: as mundaka, 'a barber;' mundana, 'the act of shaving.' Borrow's term, palabear, is derived from palyula in his vocabulary. This is the Sr. palyul, 'to eat, to purify.' But the word appears to me of Spanish origin.

Sheep—bakró, bakrichó; Br., bakroo; Bor., bracuñi, bacria.—I have placed here Borrow's second term, although he defines it 'a goat:' it appears to be a word of the same origin. The Hindus call the goat bukka. Compare also Germ. bock, Eng. buck, Fr. bouc. Bakrí, 'ewe;' bakrichó, 'lamb,' dim. form, instead of bakroró. Allé bakré, 'sheep have come;' teréla shelé bakré, 'he has (owns) a hundred sheep.'

Ship—beró; Br., ghamee; Bor., bero, berdo.—Beró seems to be naturally related to the root bhri, 'to uphold, to support, to cherish.' Borrow's berdó I refer to another cognate word, bhartri, 'a supporter, a holder.' This derivation is corroborated by vordón or bordón, 'a carriage,' which is referable to the same word. Mr. Brown's ghamee is the Turk. gemi, 'a vessel, a ship.' Beréskoro, 'a seaman,' ναύτης, Turk. gemichi.

Shoe—triák.—I have nothing satisfactory to propose for the derivation of this singular term, which does not resemble any of the words usually applied by the people of these countries to shoes. The Mod. Gr. παπούτζια is from the Pers. papush and pabuj, 'shoes;' τζαφόζια is from the Turk. charuk, 'shoes formed of a piece of thick leather, fastened to the foot by strong thongs of the same material,' worn by farmers and shepherds. Plur. triaká and triakhá: lákoro pral keréla triakhá, 'her brother makes shoes.'

^{*} Armenian zeral, 'to creep.'-Tr.

Shoot (of a vine)—vicha.—This is a Bulgarian word, coming from Slav. vich', 'a twig, a switch.' It is not a very common word. The Greeks also say $\beta trza$, but more commonly $\beta \ell y ran$, from the Italian verga, Lat. virga. E manukléri vicha, 'the shoot of the stump.'

Shoulder-vikó, pikó.-Of origin unknown to me.

To shut—bandava.—This is the well known Sr. root bandh, 'to bind, to tie,' which corresponds with many terms in the cognate languages: Pers. bend, 'a bond,' bend kerden, 'to bind;' Germ. banden, band; Fr. bande; Eng. band, to bind, bondage, bonds, etc. Among the Gypsics this verb has the signification also of 'tying,' as both are intimately related: thus, band o vutár, 'shut the door;' bandela pi kori, 'he ties his neck' (i. e. 'his neckkerchief'); bandava mi kori, 'I tie my neckkerchief;' bandloipé, 'band:' bandloipé me móste, 'a band to my mouth.' Aor. bandlióm, 'I have shut, or tied:' bandlióm mo grast, 'I have tied my horse.'

Sieve—resheto.—A common word, borrowed from the Bulgarians, who pronounce it riséto.

To sign—acharáva.—This word I have not been able to refer to any corresponding Sr. term. It means 'to groan, to lament, to sigh deeply.' Aor, acharghióm and akiarghióm. Saró divés acharéla, 'all day (long) he sighs.'

Silver—rup; Bor., paquilli, plubi, pomi.—This term is evidently from the Sr. rupya, 'worked silver, silver and gold.' Our common word ασημιον, used now for ἀσημος, 'silver,' which some regard as derived from σημα, 'a stamp, a sign,' is cognate with the Pers. sim, 'silver,' and 'silver coin.' The reader must not confound rup with the common Turk. rub, derived from the Arabic rub', 'fourth.' The three forms of Borrow I do not know how to explain. The second, however, may be the Sp. plomo, 'lead,' which Borrow may have written by mistake. I do not agree with him as to its derivation from rupi. The Sr. word has given name to the common Hindu coin of the present day, commonly written "rupee." Rupovano, 'made of silver, argenteus.' No donbt, also, the Russian ruble has an intimate connection with this Sr. term.

Similar. Like—sar.—manúsh sar char, 'man (is) like grass;' sar luludí (Gr. λουλόυδιον, 'flower') e puviák-ri, 'like the flower of the earth;' sar lut, 'like thee;' sar lubni, 'like a strumpet.'

Song—qhili.—

To sing—ghiliáva, ahiliováva; Bor., guillabar.—The Sr. root grî is 'to sound, to speak, to sing:' from it comes gir, 'a song.' Ghiliára is derived from this root, by the commutation of r for l, in accordance with all the Gypsy verbs derived from Sr. verbal roots ending in ri or rî. Borrow's term corresponds with the one used in Turkey. He has another in his vocabulary, labelar, 'cantar, hablar,' which he refers to the Sr. lap, 'to speak, to ntter.' It appears to me to be connected rather with the Sp. hablar, 'to speak.' Ghiliováva is in the middle voice, formed from ghiló, 'song,' and the usual aváva.

These terms are extremely common among all the Gypsics of Turkey, and particularly among their women, who gain their livel hood by roaming in the streets, and singing every kind of laseivious and erotie song. Ghilimpé, 'an instrument of music;' i ghiliá e devléskero, 'the songs of God.'

SISTER-See BROTHER.

SLEEP—lindr.—This is evidently the Sr. nidrå, 'sleep, sleepiness, sloth.' From this noun is formed an adj. lindraló, 'sleepy;' bilindraló, 'sleepless:' na isôm lindraló, 'I am not sleepy.' Here we see the eominutation of the liquids n and l, so common among the Gypsies and Greeks.

To sleep—sováva;* Bor., sobelar, sornar.—Comp. the Sr. svap, 'to sleep,' svapna, 'sleep,' with which correspond Gr. υπνος, Lat. sopnus, somnus. The final radical of the Sr. root has been changed into the kindred v. Sottisóm, 'I am asleep' (for sottó isóm). Sottó, 'asleep,' is the Sr. part. supta, 'sleeping, asleep:' sottó 'si i likhnari (Gr. λυχνάφιον), 'the lamp is quenched' (lit. 'asleep'). This phrase I have heard from Gypsies residing near Constantinople. It is taken from the Greeks, who call λυχνάφιον ἀχοίμητον the lamp that is kept burning night and day before the household images. Na sováva, 'I am not sleeping.'

SLIM—sannó.—Compare the Sr. part. sanna, 'shrunk, diminished,' from the verbal root sad, 'to wane, to perish gradually.' Léskeri i romní

isi sanni, 'his wife is slim.'

Slowly—parés.—This seems to originate from the Sr. para, whose definitions are exceedingly numerous and varied. I have often heard it used in this sense. As it is an adverb, it supposes an adj. paró, 'slow.'

Parés parés, 'slowly;' parés ker, 'work slowly.'

To sneeze—chiktáva.—This, like many other similar verbs, is a compound, made up of chik, 'a sneeze,' and dáva, 'I give.' Compare Sr. chhikkâ, chhikkana, 'sneezing.' The verb dáva, 'I give,' is frequently joined to nouns. Some of these are never used in their simple form, and are extremely rare, even in the mouth of other Gypsies. An example of the usage of the simple and compound verb we have in tapáva, 'to strike,' which is also frequently used in the compound form, tap dáva, 'I give a stroke, I strike.' Aor. chiktinióm, from dinióm, aor. of dáva.

Snow—iv, biv; Bor., bifi, give.—From the Sr. hima, 'snow,' is derived our χιων, χείμα, Lat. hiems, Slav. zima, 'winter.' Iv is a regular formation; h is dropped, and m ehanged to v (see Section IV).

Soil—poshik.—This is one of many terms which, in want of a better definition, I refer eonjecturally to the root push, to eherish or nurture, to rear or bring up.' This definition might have been given to the soil, as the ultimate source of nutrition.

Son-in-law—jamutró.—The Sr. possesses two eognate terms, with which this word closely coincides: yâmâtri and jâmâtri, 'a daughter's husband.'

To speak—vrakeráva.—A compound verb, vra and keráva, 'to make.' Bhran, bran, and vran, are cognate Sr. verbs, signifying 'to sound;' but I prefer as the origin of this Gypsy verb the root brû, 'to speak, to say,' which is to be met with in many European languages. The

^{* &}quot;Sovho, 'il dort.'" Vaillant, p. 363. "Passjuval, 'schlafen.'" Arndt, p. 391.

word is a very common one among all the Gypsies, particularly when they wish to impose silence. Ma vrakér, 'do not speak' (i. e. 'be silent'), Gr. σιώπα; na vrakeráva, 'I do not talk;' ta i romnía ka dukéna but ta vrakeréna, 'and the women that love to talk much.'*

To spin—katáva.—This Gypsy verb eannot easily be referred to a satisfactory Sr. original. But compare Sr. krit, 'to cut,' also 'to spin,'

and its derivative kartana, 'entting, spinning.'

To spir—chungárva.—I know of no Sr. root to which this Gypsy word may with propriety be referred. It means 'to spit upon, to revile.' Among the common people in these countries, spitting upon one another is an act of contempt and reviling. Chungartinióm, aor. pass., 'I was spit upon,' i. e. 'I was insulted;' chungér, 'spittle, phlegm,' and whatever else is ejected from the mouth.

Sponson—kirvó.—This is a term common to all the Gypsies, who certainly cannot have brought it from India. The Greek ἀνάδοχος, 'godfather, sponsor,' designates one who undertakes to excente something, a guarantee. May it not then be allowable to refer this term to the Sr. kurvat, 'doing, acting, an agent,' from kṛi, 'to make, to do?' Kirvi, 'god-mother;' mo kirvó isi but baravaló, 'my godfather

is very rich.'

Spoos-róyi, rói.—The origin of this term is unknown to me.

Stake—kiló.—Compare Sr. kila, 'a stake, a pin, a bolt,' etc. This term by the Gypsies is used for poles set up around a field, upon which is formed the fence; also, for the poles set up around the threshing floors; and again, for poles stuck deep into the ground, to which horses are fastened while grazing. Bandlióm mo grastés to kiló, 'I have tied my horse to the stake.' Compare Slav. kol', 'stake, pike.' To stand—terghiováva, tertiováva.—This is a verb in the middle voice,

To stand—terghiováva, tertiováva.—This is a verb in the middle voice, in common use among the Gypsies. Acr. tertinilióm, and by some pronounced terghinilióm. Like the Greek στέχουαι, it is always used in the passive voice. Terghiováva supposes teráva as the active voice, which we have referred above (see to have) to the Sr. dhri, 'to have, to hold, to keep.' Atiá terghiováva, 'here I stand;' ἐδῶ στέχουαι.

Star-cherghení † Br., tcherhinee; Bor., cherdillus, trebene.—Compare Sr. túrá, 'star. planet, eonstellation,' probably from the Vedic stárá, by throwing off the initial s. From this is our ἀστης and ἄστον. Lat. aster, astrum.† Cherdillas, and cherdino, found in another place in Borrow's glossary. I conjecture to be of Spanish origin.

To steal—choráva, choláva.\$—

Ther—chor; Bor., chor, choro.—These terms, so similar to each other, are referable to the Sr. root chur, 'to steal, to rob.' According to Bopp, this root gives origin to the Lat. fur and Gr. quo. From it

§ "Tchordel, 'tu voles'" (write tchorél, 'il vole'). Vaillant, p. 369.

^{*} Pott writes the word "Rakkcraf, 'sprechen, reden.'" Nearly all the authors on the Gypsies write the word in a similar manner. The word is pronounced by the Gypsies here as I have written it, and I have heard it very often with the initial v strongly marked.

^{+ &}quot;Tcheacren, 'astres'" Vaillant, p. 457. "Tschergeny, zerhene, 'stern.'" Arndt,

^{1.} The Armenian asdeath is evidently of the same origin, as that language often changes r and l to the guttural gh.—T \mathbf{x} .

comes chaura, 'a thief, a robber, a pilferer,' whence the above chor and choro. At times, instead of chor, the Gypsies use chornó and churnó, 'a thief.' Chordicanó, 'stolen;' kon chorghiáles? 'who stole

it?" astarghióm e chorés, 'I have taken the thief.'

Steel—abchin.—This term, ordinarily meaning 'steel,' is very often applied to the steel and flint used generally in Turkey for striking fire, and which people always earry with them for lighting their tobaccopipes. It is difficult to refer it to any known Sr. term. I bring to the memory of the reader the Pers. abgine, 'vitrum, erystallum,' a name given to substances similar to the flint, and so, perhaps, in course of time to the steel itself, which constituted a necessary accompaniment of these instruments. In this manner the word may have come to be applied to steel in general.*

To step-ukiaváva, uktiaváva.—This verb is derived from the Sr. kram, 'to go, to walk, to step,' with some preposition prefixed. It is used

also for 'stamping, trampling,' etc.

It STINKS—kándela.—Of doubtful etymology. Kandiniko, 'stinking.'

STONE—bar; Bor., bar.—Compare Sr. bhāra, 'weight, burden.' It is possible that the Gypsies gave this name to 'stone,' as being preëminently heavy. It is very well known to all of them. Diniáles yek baré barésa, 'he struck him with a large stone;' ov isás ta chivghiás o bar, 'it was he who threw the stone;' baréskoro, 'a stone-cutter, a

worker in stones.'

STRAW-bus.-Referable to the Sr. busa, 'chaff.' Compare FLAX.

To STRIKE—topára, top-dáva.—Top is not a very usual word among the Gypsies, and when used, it is mostly joined to dára, 'I give:' top dára, 'I give a blow, I strike.' Tap dėla, 'it beats' (i. e., the pulse). Both tup and tapáva seem to be related to the Sr. tup, 'to injure, to hurt, to kill,' which has passed into Greek, as τίπτω. It may be well to remark that tap, 'to heat, to torment,' may possibly have given origin to this verb.

Strong—zoraló.—This is a word of Persian origin, very common among the Gypsies, from zor, 'strength, vigor.' It is very usual with the Turks also, who have formed from it adjectives of their own: zorlu, 'strong,' instead of the Pers. zormend or zordar, 'having strength.' Bizoraló, 'weak;' but zoraló isóm, 'I am very strong.'

Stump of a vine—manukló, manikló.—Applied to the vine in vineyards, before the plant has shot out the sprouts upon which the grapes are produced. It is like the trunk of a tree. E manukliéri vicha kerela drak, 'the shoots of the stump make (i. c. 'produce') grapes.'

Summer-nilái.—Of doubtful etymology.

Sun-kam; Br., cam; Bor., cam, can.—The similarity of these words makes their common derivation plain. The usual name of the sun

^{*} All the derivations of Pott are as unsatisfactory as mine. They may serve as a guide to others.

Armeniau zoravor, 'strong;' zoranal, 'to grow strong;' zorutiune, 'strength.'—Tr.

^{† &}quot;O-cham, 'le soleil.'" Vaillant, p. 457. "Kam, cham, okam, 'sonne.'" Arndt, p. 366.

among the Hindus was sûrya, from the root sur, 'to shine.' The above kam, can seems related to the Sr. root kan, 'to shine;' compare Lat. candeo, whence also candela, candidus, 'white;' like our $\sigma \varepsilon \lambda \dot{\gamma}_{\nu\eta}$, 'moon,' from $\sigma \varepsilon \lambda \dot{\alpha}_{\omega}$, 'to shine,' and Mod. Gr. $\varphi \varepsilon \gamma \gamma \dot{\alpha} \varphi \iota \nu$, 'moon,' from $\varphi \dot{\varepsilon} \gamma \gamma \omega$, 'to shine.'*

Sunday—kurkó; Bor., culco, curque.—See church.

Sweet—gudló; Br., goodlu; Bor., busni.—Concerning these terms I have nothing satisfactory to propose. Gudló tut, 'sweet milk.'

Swine—baló, balichó; Br., baleetcho; Bor., balicho.—Compare the Sr. adjective balin, 'strong, powerful,' and, as substantive, among other meanings, 'swine.' Balichó is a diminutive form, probably from the language of the Turks, as the word, according to the general formation of the Gypsy diminutives, would be baloró. Parvardó baló, 'a

fat pig.'

Sworn—hanló; Bor., estuché.—Neither of these words appears to me to have any clear relation to Sr. roots. In want of anything better, I propose for hauló (at times khanló), the common Sr. han, 'to hurt or kill.' The final syllable lo is the regular adjective form of many Gypsy nouns. Borrow's estuché may be related to the Italian stocco, 'a small sword.' We have seen another Italian word in Borrow's vocabulary, viz. meligrana.

T.

Tail—pori.—I know of no Sr. word to which this term can be traced. To take, to ger—lára; Bor., lillar.—Undoubtedly related to the Sr. lâ, 'to take, to obtain.' This verb I formerly considered as referable to Sr. labh, 'to take, to seize,' from which originates the Gr. λαβαίνω, λαμβάνω; but its indicative present should in that case be laráva, and its aorist larghióm. Kamalél yek grast, 'he will take (i. e. 'buy') a horse;' liniómles panjénghe, 'I bought it for five' (i. e. 'pieces of money'). Borrow's form lillar does not appear to be connected with láva.

Tall—ruchó, uchó; Br., utchó; Bor., saste.—This word is the Sr. uchcha, 'high, tall.' Probably Borrow's saste, 'high, tall,' is related to the Sr. çasta, 'fortunate, excellent, great.' This term is by nearly all the Gypsies pronounced vuchó: uchó is in use only among a few of the Moslems. Vuchó manúsh, 'a tall man;' vuchó ruk, 'a tall tree; adv. vuchés, 'highly:' po vuchés, 'more highly.'

Tear—úsfa.—The Sr. vashpa, written also vaspa, 'vapor, tear,' by dropping its initial consonant, and converting the p of the last sylla-

ble into its cognate f, has formed the present asfa.

Tent-sahriz; Br., serka.-Words of origin unknown to me.

Testicle—peló.—I have inserted another word in the Vocabulary, used for 'testicle' (see egg). Peló (pl. pelé) may be referred to the Sr. pela, 'a testicle.'

THIEF-See to STEAL.

^{*} Armenian loosin, 'moon,' from loosnil, 'to shine.'-TR.

THIRST—trush, trust.—

To there — taráva.—These terms have a common origin, from the Srtrish, 'to thirst.' From this root have originated the Germ. durst, Eng. thirst. As thirst implies the idea of want of water and drynessit is consequently natural to suppose that from the same Sr. root have spring the Gr. τέφσομαι and τεφσαίνω, 'to dry.' The Sr. semi-vowel r is rarely lost in the European languages; it is, in fact, the most constant of all the Sr. consonants. Trushaló, 'thirsty:' trushalo 'sóm, 'I am thirsty.'

To become THIRSTY.—trusháliováva.—A verh in the middle form, composed of the above trushaló, 'thirsty,' and aváva. The Gypsies are extremely fond of these compound verbs, and neglect the simple, as in this case. The same is true of the Greeks. The Moslem Gypsies make use of teráva, and, though they understand trushaliováva, will

not employ it.

This—avaká, avká.—There is a great confusion in the use of this demonstrative pronoun. Even among the Gypsies themselves, one hears the word continually varied, without any apparent reason: avaká, 'this;' avakhá (or akhá) isí minró, 'this is mine;' avaklía (or aklá) resá, 'these vineyards;' akhiá mol, 'this wine;' okhiá romní, 'this woman;' oklé manushénghere, 'of these men.' Both masculine and neuter have the same termination. Avakhá manúsh, 'this mān;' avakhá chavó, 'this child.' It is difficult to say to which of the Sr.

pronouns this term should be referred.

THREAD—tav.—This word appears to be of pure Sr. origin. The root tap, 'to heat, to vex, to torment,' we have noticed in this Vocabulary, as the parent stock of many words among the Gypsies here in Turkey. It appears also in the Pers. tabiden and taften, 'to burn, to vex, to torment.' To this verb properly belongs tab, 'curvatura funis, comae' (Vullers), and risman taften, 'to weave,' charkh risman-i-tav, 'an instrument for weaving.' All these terms imply the idea of tormenting, as is the case with any filament when it is twisted into thread, or rather tormented into this new form. In Greek, κλωστή, from κλώθω, 'to twist, to weave,' is used now very generally for νημα, 'thread.' too in Latin, torquere, 'to twist, to torment,' gave origin to torques, 'a chain worn round the neck.' From orgego, 'to turn, to whirl,' came the στρόφος of the ancient Greek physicians, by which they indicated violent shooting pains in the bowels, the tormina of the Romans. In this way I conceive that the Gypsy word tav was either horrowed from the Persians, or formed directly from the Sr. root from which the Persians have taken their own tabiden. The Persians have also tav, 'thread,' and tabdi, 'torquens funcin,' which the Turkish translator (Vullers s. v.) explains by ip ve iplik bukiji, 'a weaver of thread or rope.'

Throat—kurló.—A very indefinite word: it signifies 'the back of the mouth,' and frequently 'the neck,' particularly its front part. To me it appears to be the Bulgarian gurló, 'throat, pharynx.' T' astarghiorél mo chip me kurléste, 'may my tongue be bound (lit. 'held')

in my throat.'

To throw—chiváva, chitáva.—Compare Sr. kship, 'to throw or cast,' part. kshipta, 'thrown, despatched,' which seems to have given origin

to this Gypsy verb, which retains the same signification as the Sr. original. By the usual change of the consonants, this participle becomes kshitto or chitto, and hence the verb chitára. Aor. chivghióm: chivghióm yek bar, 'I threw a stone;' kána chivésa bar, 'when thou throwest (a) stone;' chivdiló o bar, 'the stone was thrown;' chivghián bar, dik nápalal, 'thou hast thrown (a) stone, look behind'—a common proverb, 'eonsider the eonsequences of thy actions.'

Till—chin.—This term is common to all the Gypsies, wherever they are to be found. Keti dur isi (pronounced dursi) chin ti Silivri? 'how far is it to Silivria?' chin ti pur, 'to the ground;' Gr. &\omega_s \epsilon_s \epsi

την γην; chin vuchés, 'on high.'

Time, times—far, var.—Corresponds to the Gr. φορά, as πολλάς φοράς, δλίγας φοράς, used now in the place of πολλάκις, δλίγακις. The word is pronounced indifferently far and var, and in this the Gypsies imitate their neighbors the Greeks, who say φορά and βολά. Yek far, 'one time, once;' kayék far, 'sometimes' and 'never;' like the Gr. καμαίαν φοράν, which has both these significations. This term is the Pers. bar, which has often the meaning of the Lat. ricis, Turk. defa', 'turn:' compare Pers. yek bar, 'one time, once.' Vullers derives it from Sr. bhàra, from the root bhri, Gr. φέρω, whence φορά. But compare Sr. vára, 'a turn, a successive time.' Ke yavér far diniás man, 'and at other times he struck me;' po kayék far, 'at times, sometimes;' duvár, trivár, panjvár, 'twice, thrice, five times.'

To be TIRED—chiniováva.—See to CUT.

Tobacco-pipe.—chukni.—This is a common term for the long tobacco-pipes, used in the Levant by all the inhabitants indiscriminately. An i chukni, 'bring the tobacco-pipe.' The usual term among the Turks

is chibuk, Gr. τζιμποέκιον.

Today—avdivés, apdivés;* Bor., achibes.—We have in this term the Sr. divâ,† which I have had occasion to mention in explaining the term divés, 'day, moruing.' The initial a, av may be the Sr. dem. pron. sa, which has rejected, like many Greek words, the Sr. s at its beginning. The formation of this adverb may be explained by the Gr. σ-ήμεζον, τ-ήμεζον, 'this day;' τῆτες, τ-ἔτος, 'this year;' τ-ώρα, 'this hour, now.' Avdivés σνάνα, 'today I am coming.'

Together—eketané.—This appears to me a pure Sr. term, coming from eka, 'one.' Compare Lat. una, 'together, in eompany;' Pers. yekser, 'together, at the same time.' Here is an example of a purer preservation of this Sr. numeral than we have in the term yek, 'one.' The Gypsies always pronounce it as I have written it. Achái chor eketané, 'and other thieves together;' eketané amèntza, 'together with us;'

eketané e chavéntza, 'together with the ehildren.'

Τομβ-mermóri, mnemóri.—Of modern Greek origin. Μνημόφιον and μνημούφιον are diminutive forms of μνημα, 'a tomb.' The ancients

^{* &}quot;Abdés, odés, 'aujourd'hui.'" Vaillant, p. 456.

[†] Armenian div, 'day.'—Tr.

[†] Pott writes the word kettene, kétáne, keteny, catané, catanar, catañar, 'to assemble.' In speaking of its etymology he says: "der Ursprung hochst zweifelhaft." It is certainly clearer, as pronounced in these countries. Similar comparisons may serve to illustrate many other passages.

also had their diminutive, unquarion. In the use of terms of this class, the Gypsies have always adopted those of the new faith which they have embraced. The Moslem Gypsies say mezár, 'a tomb,' from Turk. mezar.

Tomorrow—tukhiára.—I have nothing to propose for this term. Po tukhiára, 'day after tomorrow;' takhiára aváva, 'tomorrow I am coming:' takhiára kamovés otiá? 'tomorrow wilt thou be there?'

takhiára kamajél, 'tomorrow he will go.'

Tongs-ksillábi, ksillávi.—I have noted this word, which is of the purest Greek, though nowadays no Greek understands it, and it could not have been lately borrowed from the Greeks, since they make no use of it, nor is it to be found in any of the modern Greek glossaries. Hookiga was anciently the name of the instrument by which heated or burning substances were seized, also λαβις, from λαβαίνω, λαμβάνω. Auβίδα we now eall the long-handled and extremely shallow spoon used in administering the communion. Augh and hugh; with ovrσυλλαβή and συλλαβίς, or ξυλλαβή and ξυλλαβίς—is an instrument for seizing anything. These latter terms are not in use now among the eominon people, but the existence of such a Greek term in the language of the Gypsies certainly proves the employment of it among the Greeks at the period of their irruption into these countries. It may be well to remark that the proper term for tongs, πυράγρα, is nearly forgotten, and that the Greeks now use the Turkish mashá, 'tongs.' The term ksillábi is peculiar to the Gypsy blacksmiths. In other cases they use the Turkish mashá. The presence of the compound consonant ks amply proves the word to be foreign, as this consonant never occurs in pure Gypsy words.

Tongue—chip; Bor., chipe, chipi.—From the Sr. jihvà, 'tongne,' j being changed to ch, as is common in many languages. Romani chip, 'the Gypsy language;' me chipéste, 'on my tongne.' Chip, 'tongue,' as in many other idioms, is used both for 'tongue' and 'language.'

Tooth-dánt; Br., danda; Bor., dani.—From the Sr. dat or danta, 'tooth.'

TREE—ruk.—This Gypsy word bears no relation to the Sr. dru, with which are connected the synonymous terms in so many other Indo-European languages, but may be referred to the root ruh, 'to grow from seed, to grow as a tree,' by the changing of the aspirate, h, into a guttural, k. From this root come ruhvan, 'a tree,' precisely as the Greeks applied the term quits to trees and plants in general, and rûksha, 'a tree in general.'* Plur. ruká: opré to ruká, 'upon the trees;' vuchó ruk, 'a high tree.'

TROUGH (wooden)—kopána.—A Bulgarian word, kopánka, from the Slav. kopán, 'I dig,' precisely as the corresponding Gr. term, σκάφη,

comes from σκάπτω, 'I dig.'

TRUTH—chachipé; Bor., chachipe.—We have the following derivation by Borrow: "This word, which the English Gypsics pronounce

^{*} In their Essai sur le Pali, Burnouf and Lassen compare the Pali roukkha, 'a tree,' to the Sr. vrikcha, 'a tree.' Both the Pali and Gypsy appear to me to be from the above rúksha. The same form, roukko, 'a tree,' is found in the Prakrit. Ibid., p. 159.

tsatsipé, seems to be a compound of the Sr. sat, which signifies 'true,' and the word of Sanskrit origin chipé, 'a tongue.' Chachipé therefore is literally 'a true tongue.' This is one of Borrow's random derivations. He has said elsewhere in his vocabulary that pen is a particle frequently used in the Gypsy language in the formation of nouns: e. g. chungalipen, 'ugliness,' from chungaló, 'ugly.' Here, however, the final pe or pen is this very particle, common to the Gypsies of Spain with those here in Turkey, as we have already seen in the course of this memoir. The rest of the word is probably the Sr. satya, 'true, sincere, honest.' From chachipé is formed the adj. chachipanó, 'true,' and the adv. chachipanės, 'truly 'chachipé isí, 'it is true,' lit. 'it is a truth,' like the Gr. ahi setuat, for ahnotes είναι, for ahnotes είναι.

Turk-khorakhái.-The Turks, who call themselves osmanly and othmanly, as descendants from the house of Othman, would be surprised to hear such a name applied to them. Their language, however, they call turk. The Greeks always call them rolgenus. Borrow defines the Gypsy term, written by him corajay, as follows: "'The Moors, los moros,' probably derived from the word kurrek, a term of execration and contempt too frequently employed by the common Moors in their discourse." The similarity of the two terms, as employed here and in Spain, amply proves the necessity of looking for another origin than that which has been advanced by Borrow. Khorakhái is both singular and plural. Khorakhanó, 'Turkish;' khorakhaní, khorakhní, 'a Turkish woman;' khorakhnia, 'Turkish women;' khorakhano gav, 'a Turkish village;' khorakhani chip, 'the Turkish language;' khorakhanés janésa? 'dost thou know Turkish?' khorakhniori, 'a young Turkish woman; khorakhané rom, 'Turkish Gypsies,' i. e. 'Gypsies of the Mohammedan religion.'

U.

UGLY, NOT BEAUTIFUL—nasukar; Bor., chungalo.—For chungalo see MISERABLE. My own term is from sukar, 'beautiful,' with the negative particle na. See NEGATION and BEAUTIFUL.

Unfortunate—bahtaló.—This originates from a Persian term, bakht.*

'fortune, luck,' to which the Gypsies have given the form of their vernacular idiom, precisely as we have observed in other words borrowed by them. So the Greeks have made, from the Turkish zavál, ζαβάλιπος, ζάβαλης, and ζαβάλισομ, 'miserable.' Though bahtaló, from bakht, 'good fortune,' would properly indicate prosperity and happiness, still it is given to men and animals as a term of affection and hearty commiseration. O bahtaló peló ti puv, 'the unfortunate (i. e. 'bird') fell to the ground.'

UP—opré; Bor., aupré, opre.—From the Sr. upari, 'above, up, up above:' compare Gr. śnię, Lat. super, Germ. ober, Eng. over.† Opretúr tut (tur, abl. partiele), 'from the rest of the milk;' besahiom opré to amóksi (Gr. áuáši), 'I sat upon the carriage;' opré to ruká, 'upon the trees;' opré to bar, 'upon the stone;' opré ti púr, 'upon the ground

^{*} Armenian pakht or paht, 'fortune' pakhtávor. 'fortunate.'-Tr.

[†] Armenian veri, ver, verá.—Tr.

(earth); oprál and opryál, 'from above:' oprál pelióm, 'I fell from on high.'

URINE-mutér.

To void URINE—mutráva; Bor., mutrar, muclar.—These terms bear the stamp of undisputed descent from the Sr. mûtra, 'urine.' Borrow's muclar is probably a corruption of the original mutrar, although I have not met elsewhere the change of trar into clar.

W.

VILLAGE—gav; Bor., gao.—Compare Sr. grāma, 'village,' which has lost the liquid r, and changed the final m into v, a change which we have already observed elsewhere (see NAME), and shall have occasion fully to prove, in speaking of the commutation of the consonants. The Gypsy word is often applied to denote 'one's native town' or 'home,' nargl;, just as the Greeks use zwolov, and the Turks kióy, for their native place. Mo gav, 'my village,' is to be understood as 'my native town;' ghelióm to gav, 'I went to the village;' gavudnó, 'a villager:' mo gavudnó, 'one of my village;' túya kamovés to gáv? 'wilt thou also be in the village?' te gavéskoro manushé isí but górke, 'of thy village the men are very bad.'

Vinegar—shut; Br., shutt; Bor., juter, juti.—Compare Sr. cota, 'sour, astringent.' It is worthy of remark, that this term by some Gypsies is pronounced shutkó, and applied to 'vinegar,' although it properly means 'sour.' From this noun, by the addition of lo, has been formed shutló, 'sour:' shutló mol, 'sour wine:' it is pronounced also

shudló: shudló tut, 'sour milk,' the Turkish yaghurt.

VINEYARD—res, rez; Bor., eresia.—Compare Sr. ras, 'gustare, amare;' the noun rasa has also the definition of 'grape,' though its general signification is 'taste of any kind.' Persian bagh rez, 'a vineyard.' By the Gypsies this term is applied particularly to the vine. Keréna resá, 'they make (i. e. 'plant') vineyards;' kaléskoro isi e resá? 'whose are the vineyards?'

Vomiting—chartimpé, chattimpé.—

To vomit—chartáva, chattáva.—Compare Sr. chhard, 'to vomit, to be sick.' The Gypsies, in pronouncing chartáva, give such a slight sound to the r that it is scarcely heard, or even, at times, is not heard at all. Many Gypsies contend that it contains no r, and pronounce always chattáva. Chartimpé is the Sr. chhardi, 'vomiting,' by the addition of the common pe or pen, which we have already noticed.

W.

To walk—piráva; Bor., pirar.—Compare piro, 'foot,' which I have referred above to the Sr. prî or par, to pass.' But pirêl, 'he walks fast;' kapiráv, 'I shall walk.'

Wallachian—vlákhia.—The Greek βλάχος, a denomination given to the inhabitants of Wallachia and Moldavia. Vlakhina, 'a Walla-

chian woman.'

WARM—tattó.—This word I have explained in speaking of BATH. I notice it here merely to add that the Gypsies use it in this sense also, apart from its signification of 'bath.'

To wash—továva.—This verb may be referred to the Sr. verbal root dhâv, 'to cleanse, to be clean or pure.' Aor. tovióm and tovghióm: tovióm mo shoró keraló, 'I have washed my scabby head;' toávaman (mid. voice), 'I wash myself,' used for the Gr. νίπιομαι, λούομαι, πλύνομαι: so kerés? toávaman, 'what art thou doing? I am washing myself;' továva me yísmata, 'I wash my linen;' tovdó, 'washed!' tovdé yísmata, 'washed linen.'

WATER—paní, pai;* Br., pagnee; Bor., pani.—The Sr. adj. pânîya, from pâ, 'to drink,' signifies 'anything fit to drink, potable,' and consequently 'water.' Water is also termed pâya, from the same root pâ. Dêman khandî panî, 'give me a little water;' sudró panî, 'cool

water.'

To WATER—panidáva.—A compound verb, from the above and dáva, 'I give.' The verb has been formed in imitation of the Greeks and Turks: the former often say δίδω νεφὸν, instead of ποτίζω; the Turks,

su veririm, for ichirmek.

To weep—rováva; Bor., orobar.—Both these words I am inclined to refer to the Sr. verbal root ru, 'to cry, to make a noise, to yell, to shriek.' Compare viráva, 'sound, noise;' virávin, 'shouting, weeping, crying.' Weeping with howling and yelling, amongst barbarous people, is an ordinary phenomenon, on all occasions where the exhibition of sorrow is necessary or official. The initial o in Borrow is euphonic. O rakló rovéla, 'the child cries;' saró divés rovéla, 'all day he cries.'

WEIGHT—vária.—This term, usual among the Gypsy blacksmiths, is applied to the hammer which beats the heated iron. It is from the

Gr. βάφος, 'weight,' from which comes βαφῶ, 'to strike.'

Well—khanínk, khaínk; Bor., putar.—These words differ so much from each other that they cannot be referred to the same origin. My own are from the Sr. khan, 'to dig, to delve,' whence the Gr. χαίνω. From this archetypal root khan probably comes the Lat. canalis, and also cuniculus, denoting 'the hare' and 'a mine' (Bopp). Compare from the same root the Sr. adj. khanaka, 'whatever pertains to digging, and to making canals and wells,' whence the present khanínk and khaínk, denoting 'whatever is dug,' and consequently 'a well.' The use of an adjective for a substantive is extremely common. Borrow's putar I regard as Spanish, or rather as from the Lat. puteus, and not, as he explains it, as from pâtâla.

Well—lachés.—An adverb, from lachó, 'good.' Lachés isí, 'it is well;' po lachés, 'better:' po lachés isóm, 'I am better;' nanái but lachés, 'it is not very well;' po lachés te jas, 'it is better for thee to go.'

What—so.—This term, the neuter of the interrogative pronoun kon, is used precisely as the Eng. 'what.' The following phrases will explain it: so terésa? 'what hast thou' (i. e. 'what is the matter with thee')? so kamésa? 'what dost thou wish?'

Wheel.—asán.—Compare Sr. ara, 'the spoke or radius of a wheel.'
The change of r into s is extremely common, not only in Sr., but in many other languages.

^{# &}quot;Pany, panio, 'wasser.'" Arndt, p. 357.

Whelp-rukonó.-This term is used for the young of dogs; Gr. σχύμνος, Mod. Gr. σκυλάκιον. It seems to me to be related to the Sr. ruh, 'to grow, to be produced or become manifest, to be born.' I chukli penghiás panj rukoné, 'the bitch has produced five whelps.'

When-kánna.—Compare Sr. kadâ, 'when!' Kánna kanashés? 'when wilt thou go?' kánna kamuló? 'when will he die?' kánna kinghianles? when didst thou buy it? kanna kamabiél? when will she be

delivered' (i. e., 'of a child')?

Whence-katar.-Intimately related to the pron. kon and ka, 'who' and 'which.' The final tar is the ablative particle (see Section V). Katár alló amaré manúsh? 'whence came our men?' katúr avésa? · whence comest thou?' katár anghian te romniú? 'whence didst thou bring thy wife?' katár allián? 'whence hast thou come?'

Where-karin.-Also related to the interrogative pron. kon, 'who.' Karin kamojes? 'where wilt thou go?' karin isi to rom? 'where is thy husband? kárin jesa? 'where art thou going?' It is used at times as the Italians use their ove: takhiára kamováv ti pólin (Gr. πόλιν) kúrin ta isí to dat, 'tomorrow I shall go to the eity, where also

thy father is.'

White-parnó; Bor, parno, parne.-The origin of this term, so common among all the Gypsies, is extremely obscure. Borrow defines parno "blanco, Sr. pandu." This term, pandu, well known in the history of India as the name of the founder of the Pandava race, means also 'white, yellow, jaundiee.' I see no relation between the Sr. and Gypsy terms. Parnó manró, 'white bread; o yék kaló, o

yék parnó, 'the one black, the other white.' Wно-kon.—This is evidently the Sr. ka, neut. kim, which, with slight variations, is found in most of the Indo-European languages. Kon diniás e chukél? 'who struck the dog?' kaléskoro isí o ker? 'whose is the house?' kaléste bashé? 'near whom?' ta kalés? 'and whom?' These examples show that the oblique eases of this pronoun are extremely irregular, and are far from resembling the declination of the Sr. kim. To kon is related the relative ka and ke, which is extremely eominon with the Gypsies, and used as the Italians use their che, and the Mod, Gr. their zov, relative pronouns that have lost both gender and number. A few illustrations will give the reader a clear idea of this pronoun; ki ov ka isi, 'and he who is;' ta i romnia ka dukhéna, 'and the women that love;' sávore ka kamél, 'all that he desired; oká gorkipé ka na kamésa te kerén túke, 'whatever evil that thou dost not desire they should do to thee; lachó o manúsh ka kamadél tut, 'happy (good) the man who will give thee.'

Why-soske.—Related to so, 'what,' the neuter of the interr. pron., with the particle ke, of which we shall speak in treating of the eases (Section V). Soske allián? 'why did they come?' soske puchésa? 'why

dost thou ask?' sóske isánas otiá? 'why were ye there?'

Widow-pirli.—This appears to be a corrupted form of the Sr. vidhava, 'a widow.' It is found more or less altered in many cognate dialects: compare Pers. beva, 'widow,' Lat. vidua, Germ. wittwe, Eng. widow.

Wife-romni; Br., milomnee; Bor., romi.-For the explanation of these terms, see GYPSY. Mr. Brown's milomnee should be written

mi romni, 'my wife.' So gentle is the pronnnciation of the liquids, that whoever is not somewhat conversant with the idiom easily falls into such mistakes.

Wife's brother—saló.—

Wife's sister—sali.—This term may be referred to the Sr. çâlin, 'belonging to a house, domestic,' from çâla, 'a house.' We have in Eng. domestic, and Fr. domestique, 'a servant,' while the term domesticus is properly 'any one belonging to a house.' The Gypsies, who are in the habit of living together in such numbers, must naturally have been inclined to give such names to members of a family.

Winn—palvál.—This is used for the Gr. ἀνεμος, which at present is mostly applied to mean 'a strong wind, a gale.' It is difficult to give any satisfactory etymology of it, although it appears to be of Hindu origin. Teréla palvál, 'it has (i. e. 'there is') wind;' palvál but, 'strong wind.' The word is often used for 'the atmosphere, air:' ti

palvál vuchės, 'high in the air.'

Wine—mol;* Br., mol; Bor., mol.—The similarity of these terms makes their etymology plain. Borrow says the word mol is "a pure Persian word." It is true the Persian word for wine is mol, but the Persians and Gypsies both derive it from the Sr. madhu, Gr. μέθυ and μέλι, 'an intoxicating drink,' Lat. mel, Lithuan. madus, Slav. med, and Bulg. met. Kamésa te mol? 'dost thou wish wine also?' shudló mol, 'sour wine.'

Wing—pak.—Compare Sr. paksha, 'a wing.' The Gypsies give this denomination indifferently either to the wing or to feathers, like the Gr. πιεψόν, 'feather, wing.' Plur. paká. Te sas charés (Turk. charé) te terél pak o manúsh, 'if it were possible that man should have

wings;' ta dinionles ti pak, 'and I struck it on the wing.'

Winter—vent.—I have spoken of the term iv, 'snow,' elsewhere, as from the hima of the Hindus. The Sr. adj. himavant is 'eold, freezing, chilly, frosty.' As in the word iv, 'snow,' the initial aspirate was dropped, so in this word the vowel also, and the word thus mu-

tilated is now in use among all the Gypsies.

To WISH—kamava; Bor., camelar.—This verb is the Sr. kam, 'to desire, to love; kâma is the Cupid of the Latins, the four of the Greeks. This verb among the Gypsies is used whenever they intend to express desire, wish, or love, in perfect accordance with the definitions generally given to the Sr. root. Borrow defines camelar 'to love, Sp. amar. I have placed it with my own word, as it is evidently the same verb, proceeding from the same original. In treating of the derivation of the tenses, I shall have occasion to speak of this verb, as an auxiliary forming the future. It is there that its signification becomes extremely clear. So kamėsa? 'what dost thou wish?' akaná kaména te shikliovén, 'now they wish to learn;' kamára te desman, 'I wish thee to give me;' kamávales: so kamakerės les? 'I wish him' (i. e. 'I have need of him'): 'what art thou to do with him? avdivés kamáva te jav to réz, 'today I wish to go to the vineyard;' ka na kamesa te keren túke, 'which thou dost not wish that they should do to thee.'

^{* &}quot; Moleti, 'vin.'" Vaillant, p. 369.

Withix—andré; Bor., andre, enre.—This is evidently from the Sr. antar, 'in, within, between.' In compound words its signification is 'internal, interior.' But andré ti puv, 'deep into the earth' (lit. 'much within'); jára andré, 'I go in, I enter;' andrál, 'from within,' ἔσωθεν: andrál akata ti pólin (Gr. πόλιν), 'from within the city;' Mod. Gr. ἀπὸ μέσα ἀπὸ τὴν πόλιν.

Without—bi.—This negative particle is extremely common, and corresponds to the Sr. vi, a preposition signifying separation or disjunc-The Slavonic is extremely fond of this particle, to which it has added a z, forming bez; as glas', 'voice, echo,' bezglásn'iy, 'without a voice, mute; bog, 'God;' bezbózn'iy, 'atheist, αθεος.' It exists in the Persian bi, 'without,' generally corresponding to the Lat. sine, and denoting absence or want: as, bi ab, 'without water;' bi edeb, 'without civility, uncultivated.' We have noticed it among the Gypsy verbs: see to sell, biknáva. It is used with adjectives: as uchardó, 'covered,' buchardó (bi-uchardó), 'uncovered;' namporemé, 'sick,' binamporemé, 'hcalthy ;' bimakavdó, 'not painted;' bizoraló, 'not strong;' bilindraló, 'not sleeping;' bibahtaló, 'not fortunate.' When bi is united to nouns and pronouns, these are constantly in the genitive case of both numbers: as bi sheréskoro, 'without a head' (i. e. 'a fool'); bi lovéskoro, 'without salt;' bi maséskoro, 'without mcat; bi lovénghoro, 'without money;' bi gotiákoro, 'without mind;' bi balaménghoro, 'without Greeks;' bi khorakhénghoro, 'without Turks;' bi vasténghoro, 'without hands' (i. e. 'workmen'). With pronouns: bi mángoro, 'without me;' bi oléskoro, 'without him;' bi lákeri, aménghoro, tuménghoro, 'without her, us, you.'

Wolf-ruv; Bor., orioz, aruje, luey.—The first two terms seem to be related to the Sr. verbal root ru, which I have noticed in speaking of the verb to weer. This verb, among the Hindus, gives origin to two names of animals, in imitation of their sounds: ruru, 'a sort of deer,' and ruvathu, 'sound, noise, a cock.' I see no difficulty in supposing that the Gypsies may have applied it to the wolf, an animal remarkable for howling, which is one of the most common significations of the verb ru. The third form of Borrow, luey, seems to be of Spanish

origin: compare lobo, 'a wolf.'

Woman-romní; Br., rumenee.—Sce Gypsy.

Woon—kasht, kash; Bor., casian.—Related to the Sr. kâshta, 'wood.' Borrow's casian may correspond to the adj. kâshtin, 'woody.' Kast is used for 'a stick.' diniásman kastésa, 'he struck me with a stick.' This word is sometimes pronounced without the final t, as kash, and most of the Greek Gypsies pronounce it kas.

Wool-posóm.—In want of a better derivation, I propose for this word

the Sr. verbal root push, 'to cherish, to nurture.'

Word—lav.—Compare Sr. lap, 'to speak, to utter;' lapana, 'the mouth, talking.' I have not observed in the Gypsy language any other traces of this Sr. verb, which has given to the Indo-European languages so many terms. As the Hindus have denominated the mouth lapana, as the instrument of talking, so also have the Persians their leb, the Romans labium, labrum, and the Greeks λάλος and λαλέω, by the change of p to l. Lav, plur. lavá, is well known to all the Gypsies. Kapenáv túke yek lav, 'I will tell thee a word;' lav romané, 'Gypsy words.'

WORM—kermó; Bor., cremen.—Compare Sr. krimi, written also krimi and krami, 'worm, insect.' It has also the signification of the Gr. Elmirs, which is applied exclusively to intestinal worms. By some

Gypsies the word is pronounced ghermó.

To write—grafáva.—Î have noted this word merely to show the manner in which the Gypsies have introduced Gr. words into their idiom, by giving them a Gypsy form. Grafáva (Gr. γράφω), 'I write;' aor. grafghióm (ἔγραψα), 'I have written.' It would be useless to note the numerous instances of such words which the Gypsies have borrowed from the Greeks. Their origin is generally very evident. Some are distorted, because borrowed from terms which the Greeks themselves have corrupted: so dialezáva, 'I select,' from διαλέγω. pronounced by us often διαλέζω. They have adopted another form of verbs similar to those in use among the people with whom they intermingle: thus kholiteráva, 'I am angry,' lit. 'I have bile,' from the Gr. χολή and their own verb teráva, 'to have;' also kholiázava, 'I am angry,' Gr. χολιάζομαι, 'to be angry:' hence kholiniakoro, 'angry.' Kholiteráva is common among them.

Y.

YEAR—bersh; Bor., berji.—Both these words are from Sr. varsha, 'rain, the rainy season, year,' from the root vrish, 'to be wet, to moisten.' The term was first applied to the rains, then to the season in which the rains were prevalent, and in course of time to the year itself. This use of 'rainy season' for 'year' is corroborated by the usage of the Anglo-Saxons and other northern nations, who reckoned by winters instead of years. Both, of course, were struck by circumstances peculiar to their own climate. Keti bershénghoro isi? 'of how many years (i. e. 'how old') is he?' keti bersh kerghián to rashái? 'how many years was he (lit. 'did he make') with the teacher (priest)?'

Yesterday—yich; Bor., callicaste.—I leave to philologists to determine whether this term bears any relation to the Sr. hyas, 'yesterday.' Yich penghiás mánghe, 'yesterday was said to me;' yichavér, 'day before yesterday,' composed of yich and avér, yavér, 'other,' which latter term I have explained in its proper place: yichavér o kurkó, 'day before yesterday,' (which was) Sunday;' poyichavér, with the comparative part. po, 'two days before yesterday,' Gr. artingox ves.

Yet, still—achái.—Achái but kamadikés, 'yet more thou wilt see;' achái chor eketané, 'and other thieves together;' achái palál, 'still more backwards:' for this phrase another, po polaléste, is frequently

used; achái lav romané, 'still more Gypsv words.'

Young—ternó, yernó; Br., yernee; Bor., dernó.—This is the Sr. taruna, 'young.' It is often pronounced yernó, or rather, the pronunciation of t so much resembles that of y that to all purposes it can be written with this semivowel. The Sr. yuvan, 'young,' which is found in many Indo-European languages, I have not been able to detect in the Gypsy idiom. A diminutive form of ternó is ternoró, 'a youngster.' Ternó is principally used in opposition to phuró or puró, 'old.'

SECTION IV.

COMPARATIVE PHONOLOGY OF THE GYPSY LANGUAGE.

1. Vowels.

These are five: a, e, i, o, u. The union of many vowels is rarely to be met with in the Gypsy language. Of diphthongs there are almost none. In verbs of the middle voice occurs the combination io, resulting from the blending of o and a: as mattó-aváva, mattiováva. So also in the formation of abstract nouns: parnavó, parnavoipé, 'friendship;' bandló, bandloipé, 'band.' The reader cannot but have observed the rarity of other combinations of a like character in the Vocabulary. Terms such as nái, 'nail,' múi. 'mouth,' are not diphthongs: the vowel of the final syllable has merely dropped its aspirate. The distinction of the vowels into long and short is difficult to be determined. So, too, in modern Greek, where in most cases such distinctions are of no practical value: o and o have a similar sound; only the accent seems at times to occasion a prolongation of the sound of a yowel. It is for this reason that I have noted with accuracy all the accents upon the Gypsy vowels.

A.—This vowel, which represents the Sr. a and d, seems to

have but one simple sound.

A is retained unaltered in many words: as Sr. manusha, 'man,'* G. manúsh; Sr. angâra, 'coal,' G. angâr; Sr. nakha, 'nail,' G. nái.

It is frequently changed to e: as Sr. daçan, 'ten,' G. désh; Sr. rasa, 'taste,' G. rés, 'grape;' Sr. nava, 'new,' G. nevó; Sr. hara, 'ass,' G. kher; Sr. tala, 'ground,' G. tele, 'down;' Sr. taru-

na, 'young,' G. ternó.

The Gypsies of Spain are fond of adding an initial a to words beginning with r: as eresia (Turk. Gyp. rés), 'vineyard;' arashai (T. G. rashái), 'priest;' orobar (T. G. rováva), 'to weep,' etc. Here in Turkey, I have noted this initial a in arakáva, 'to guard,' and in aratti, 'tonight.' Both, however, may justly be referred to Sr. words which have this initial a as an actual component member.

The final a of the Sr. adjectives and participles is invariably changed to o, and strongly accented: as Sr. kâla, 'black,' G. kalò; Sr. uchcha, 'high,' G. uchó; Sr. matta, 'glad,' G. mattó, 'drunk;' Sr. tapta, 'burning,' G. tattó, 'warm;' Sr. sanna, 'slim,' G. sannô; Sr. kritta, 'cut,' G. khurdó, 'small;' Sr. cushka, 'dry,' G. shukô; Sr. pûrta, 'full,' G. perdó; Sr. purâṇa, 'old,' G. puranó; Sr. mrita, 'mortal,' G. merdó, 'sick.'

^{*} When both Sanskrit and Gypsy terms have the same signification, I have noted only that of the Sanskrit. In other cases I write both,

Also in other words it is changed to o: as Sr. shash, 'six,' G. shov; Sr. çaça, 'rabbit,' G. shoshói.

E.—E is more constant: as Sr. deva, 'God,' G. devél; Sr. eka, 'one,' G. yek.

I.—I and ni are the most usual terminations of Gypsy feminine nouns: chukél, 'dog,' chuk(e)lí, 'bitch;' devél, 'God,' dev(e)lí, 'goddess;' grast, 'horse,' grastní, 'mare;' rom, 'Gypsy,' romní, 'Gypsy woman;' kher, 'ass,' kherní, 'she-ass;' manúsh, 'man,' manushní, 'woman;' gurúv, 'ox,' guruvní, 'cow;'* plal, 'brother,' planí, sister.†

In numerous Gypsy words the *i* and *î* of the Sanskrit remain unchanged: as Sr. *dvi*, 'two,' G. *dúi*; Sr. *tri*, 'three,' G. *tri*; Sr. *râtri*, 'night,' G. *aratti*, 'tonight;' Sr. *gili*, 'sound,' G. *ghili*, 'song;' Sr. *chhurî*, 'knife,' G. *churî*; Sr. *pânîya*, 'potable,' G.

paní, 'water.'

The Sr. vowel r, or ri, undergoes many changes, which are of much importance in the study of the Gypsy language, and in the explanation and philosophical analysis of the verbs, and also extremely interesting. Ri is changed to ri in Sr. riksha, 'bear,' G. richini:—to ro in Sr. jamatri, 'son-in-law,' G. jamutri:—to ro in Sr. triciala, 'trident,' G. trushil, turshil.

In the verbal roots, ri or ri is changed to ar or er in Sr. dri, to be afraid, G. daráva; Sr. mri, to die, G. meráva: Sr. kri, to make, G. keráva; Sr. pri, to fill, G. peráva:—to il in Sr. gri,

'to sound,' G. ghiliáva.

0.—No precise rules can be given as to the pronunciation of this vowel, for it is often left to the option of the speaker to use either the o or the u in a great number of words. With the exception of the final o, the common characteristic of the masc: gender among the Gypsies, this vowel usually corresponds with the Sr. u and \hat{u} : as Sr. $m\hat{u}rti$, 'matter,' G. $mort\hat{i}$, 'leather;' Sr. $d\hat{u}ra$, 'distant,' G. dur; Sr. $bh\hat{u}$, 'earth,' G. phuv.

It also represents the Sr. a: as Sr. chandra, 'moon,' G. chon; Sr. madhu, 'sweet,' G. mol, 'honey:'—or the Sr. o: as Sr. lobhini, 'desirous,' G. lubni, lobni, 'harlot;' Sr. loha, 'red,' G. loló:—or

the Sr. i: as Sr. krimi, 'worm,' G. kermó.

The final o of nouns, adjectives, and participles is changed to i, whenever abstract substantives are formed by the addition of the particle pe or pen: as kaló, 'black,' kalipé, 'blackness, excommu-

* Pronounced also gurumní.

[†] I have heard Gypsies, extremely ignorant of their language, making no distinction between the masculine and feminine of adjectives, saying kali (fem.) for kalo (masc.), 'hlack;' terni for terno. These were all Moslem Gypsies, speaking the Turkish, in which language the adjectives, as in English, have a single termination for both genders. Those in the habit of frequently speaking their language never make such hlunders; they are extremely attentive to all their generic terminations.

nication; mattó, 'drunk,' mattipé, 'drunkenness;' tattó, 'warm,' tattipé, 'heat;' moló, 'dead,' meripé, 'death;' phuró, 'old,' phuripé, 'old age;' laché, 'good,' lachipé, 'goodness, alms;' piró, 'foot,' piripé, 'gait;' shuchó, 'clean,' shuchipé, 'cleanliness.

This rule suffers exception: as in kamló, 'perspiring,' kamlioipé, 'perspiration;' bandló, 'bound,' bandlioipé, 'band';' parnavó, 'friend,' parnavoipé, 'friendship;' loshanó, 'rejoicing,' loshanoipé,

'joy;' tattó, 'warm,' tabioipé, 'heat.'

U.—This vowel is extremely common; it is a favorite sound with all the Gypsies, whether Moslem or Christian. It is often pronounced o. It represents the Sr. o in Sr. go, 'ox,' G. gurúv; Sr. lobhini, 'desiring,' G. lubni:—the Sr. u in Sr. manusha, 'man, G. manúsh; Sr. sukara, 'benevolent,' G. sukár, 'beautiful;' Sr. pura, 'former,' G. phuró, 'old;' Sr. uchcha, 'high,' G. uchó; Sr. pangu, 'lame,' G. pankó.

2. Consonants.

K.—Very common in the Gypsy language. It is often the unaltered representative of the Sanskrit k: as in Sr. kâla, 'black,' G. kaló; Sr. kan, 'to shine,' G. kan, kam, 'sun;' Sr. kôshtha, 'wood,' G. kasht; Sr. kri, 'to make,' G. keráva; Sr. krimi, 'worm,' G. kermó.

It is changed into f in kuri, 'a colt,' pronounced frequently furi; or to gh, in Sr. kal, 'to sound,' G. gheláva, 'to play on

instruments.

It is assimilated to the following consonant, as in Sr. rakta,

'red,' G. ratt, 'blood.'

It frequently becomes a very gentle aspirate: as in Sr. kâsa, 'cough,' G. has; Sr. kuh, 'to surprise,' G. hohaimpé, khohaimpé, 'a lie; 'Sr. kritta, 'cut,' G. hirdó, 'dwarfish; 'Sr. kand, 'to itch. G. handiováva, hanjiováva, 'to scratch.'

Ksh.—This compound consonant of the Sanskrit is very constant in its transformation, and may serve as a clue to the true etymology of many Gypsy words. It does not appear in the proper Gypsy language, and the Gypsies never employ it except in ksilábi, 'tongs.' In speaking Greek, they pronounce & as the Greeks do. This consonant generally becomes a simple k: as in Sr. drâkshâ, 'grapes,' G. drak; Sr. aksha, 'eye,' G. yak; Sr. yaksh, 'to sacrifice,' G. yak, 'fire;' Sr. rûksha, 'tree,' G. ruk; Sr. makshikâ, 'fly,' G. makiá; Sr. áraksh, 'to preserve,' G. arakáv, 'guard;' Sr. ciksh, 'to learn,' G. shikava; Sr. kshîra, 'milk,' G. kerál, 'cheese;' Sr. akshna, 'time,' G. akaná, 'now;' Sr. naksh, 'to go,' G. nakáva, 'to pass;' Sr. maksh, 'to nix,' G. makáva, 'to paint;' Sr. paksha, 'wing,' G. pak.

If my etymology of bashno, 'a cock,' as from pakshin, be true,

then this would be an exception to the above rule.

Kh.—This Sanskrit consonant often retains in the Gypsy its strong aspirated sound, like that of the kh of the Arabs and Turks: as in Sr. khanaka, 'digging,' G. khaínk, 'well;' Sr. khandin, 'divided,' G. khandí, 'a little;' Sr. khan, 'to dig,' G. khatáva; Sr. khani, 'a mine,' G. kháv, 'a hole;' Sr. khád, 'to eat,' G. kháva.

It is at times dopped, or very gently aspirated: as in Sr. nakha, 'nail,' G. nái; Sr. çákha, 'vegetable,' G. shah, 'cabbage;' Sr.

mukha, 'mouth,' G. múi.

It is changed to k in Sr. duhkha, 'pain,' G. duk.

- **G.**—This retains generally its proper Sanskrit sound: as in Sr. gan, 'to count,' G. ghenáva; Sr. gara, 'poison,' G. gher, 'itch;' Sr. gras, 'to eat,' G. grast, 'horse;' Sr. angâra, 'coal,' G. angâr. It is changed to k in agâra, 'house,' G. ker.
- Ch.—Is generally retained unchanged: as in Sr. char, 'to eat,' G. charáva, 'to graze;' Sr. chush, 'to suck,' G. chuché, 'breast;' Sr. chumb, 'to kiss,' G. chumí, 'kiss;' Sr. chik, 'to obstruct,' G. chik, 'mud.'

It is changed to its cognate guttural k in Sr. much, 'to release,' G. $muk\acute{a}va$; Sr. pach, 'to cook,' G. $pek\acute{a}va$. It becomes simple s in Sr. chush, 'to suck,' G. sut, 'milk;' Sr. chatur, 'four,' G. $isht\acute{a}r$.

- Chh.—This consonant is pronounced like simple ch: as Sr. chhinna, 'divided,' G. chinava, 'to cut;' Sr. chhurî, 'knife,' G. churî; Sr. chhard, 'to vomit,' G. chattava; Sr. tuchchha, 'empty,' G. chuchó.
- J.—This letter retains its genuine Sanskrit sound: as in Sr. jãô, 'to know,' G. janáva; Sr. jîv, 'to live,' G. jiváva; Sr. jâmâtṛi, 'son-in-law,' G. jamutró.
- T, Th, D.—These consonants are pronounced like t and d: as in Sr. paṭa, 'cloth,' G. páṭa, 'garment;' Sr. kâshṭha, 'wood,' G. kasht; Sr. muṇḍ, 'to shave,' G. muntáva; Sr. anḍa, 'egg,' G. vantó; Sr. khanḍin, 'divided,' G. khanḍi, 'little.'
- N.—This nasal, also, is not distinguished from the common dental n: Sr. gan, 'to count,' G. ghenáva; Sr. purâna, 'old,' G. puranó.
- T.—When at the end of a word, this consonant is often dropped: as in grast, 'a horse,' also frequently pronounced gras and gra; kasht, 'wood,' also kash; vast, 'hand,' also vas. It is distinctly heard, however, when the following word begins with a vowel: as lachó grast isí, 'it is a good horse.' When preceded by r, it is pronounced like a pure d, as in Sr. pûrta, 'full,' G. perdó. At times it is changed to f, as in Sr. tala, 'earth,' G. telé and felé, 'downwards.'
- D.—This has the sound of the Latin d: as Sr. dram, 'to go,' G. drom, 'road;' Sr. dârava, 'wooden,' G. daravín, 'pomegranate;' Sr. dîna, 'distressed,' G. deniló, 'fool.'

It is changed into gh in Sr. diva, 'day,' G. ghivés.

Dh.—This Sanskrit consonant I have not been able to hear among the Gypsies. Whenever it occurs in terms of Sanskrit derivation, it is invariably changed to d or t: as in Sr. bandh, 'to tie, G. bandáva; Sr. dhâv, 'to cleanse,' G. továva, 'to wash;' Sr. dhrita, 'held,' G. tertiováva, 'to stand.'

N.—Is perfectly similar to the Latin n.

P.—This consonant usually has the sound of p: as in Sr. pânîya, 'potable,' G. panî, 'water;' Sr. patrin, 'winged,' G. patrín, 'feather.'

It is frequently changed to f: as in Sr. par, 'to precede,' G. juró, 'old man;' Sr. pura, 'city,' G. forós, 'market-place;' Sr. vâshpa, 'tear,' G. ásfa.

Or at times to v. as in Sr. apara, 'other,' G. yavér; Sr. lapa,

'word,' G. lav.

Or it is assimilated to the consonant following it; as in Sr. tapta, 'warm,' G. tattó; Sr. supta, 'asleep,' G. sottó; Sr. svapna, 'sleep,' G. sannó, 'dream.'

It is changed to b: as in Sr. paka, 'grey-haired,' G. bakó, 'bald;' Sr. pish, 'to inhabit,' G. bishava; Sr. prish, 'to sprinkle,' G. bur-

shin, 'rain.'

B.—Has the sound of the Latin b: as Sr. bâla, 'hairs,' G. bal; Sr. balin, 'strong,' G. balo, 'hog;' Sr. bala, 'strength,' G. naisbali, 'weak;' Sr. bul, 'to plunge,' G. boláva, 'to baptize,

Bh.—Bh is not a Gypsy sound. In the words of Sanskrit origin containing it it is sometimes changed to p: as in Sr. bhrâtri, 'brother,' G. pra, pral; Sr. bhû, 'earth,' G. puv; Sr. bhara, 'much,' G. paró, 'great;' Sr. bhûti, 'dignity,' G. putí, 'business.' It becomes b in Sr. lobhinî, 'desirous,' G. lubnî, 'strumpet;' Sr.

bhañj, 'to break,' G. bangáva.

M.—M is mostly pronounced like the Latin m. In a few words it is changed to v: as Sr. grâma, 'a village,' G. gav; Sr. nâman, 'name,' G. nav; Sr. hima, 'snow,' G. iv.

Y.—Is frequently unchanged: as Sr. yaksh, 'to sacrifice, G.

yak, 'fire.'

It is frequently added to words beginning with a vowel: as Sr. aksha, 'eye,' G. yak; Sr. eka, 'one,' G. yek; Sr. apara, 'other,' G. yavér.

R.—The Gypsy r often corresponds to the Sanskrit r; as in Sr. rûpya, 'silver,' G. rup; Sr. rasa, 'taste,' G. res, 'vineyard.'

It is frequently changed to l: as in Sr. dvara, 'door,' G. dal; Sr. chur, 'to steal,' G. choláva; Sr. agre, 'forwards,' G. anglé; Sr. gir, 'sound,' G. ghili, 'song;' Sr. bhrátri, 'brother,' G. plal; Sr. mâra, 'death,' G. moló: also in Sr. kram, 'to go,' united with various prepositions: as niklaváva, 'to go out;' uklaváva, 'to mount.'

In combinations of r with another consonant, the r is often dropped: as in Sr. cringa, 'horn,' G. shingh; Sr. prachh, 'to ask,' G. pucháva; Sr. çru, 'to hear,' G. shunáva; Sr. çvaçrû, 'motherin-law,' G. shasúi; Sr. bhrû, 'eyebrow,' G. pov; Sr. grâma, 'village,' G. gav; Sr. krînâmi, 'I buy,' G. kináva.

It is also often assimilated to the consonant following it: as in Sr. karna, 'ear,' G. kann; Sr. sarva, 'all,' G. savvó; Sr. sarpa,

'serpent,' G. sapp; Sr. chhard, 'to vomit,' G. chatáva.

Or to the consonant preceding it: as in Sr. râtri, 'night,' G. arattí, 'tonight.'

L.—Requires no remark.

V.— V in many words is preserved unchanged, having in the Gypsy the sound of the Latin v and Gr. β : as Sr. deva, 'god,' G. devél; Sr. nava, 'new,' G. nevó; Sr. vái, 'verily,' G. va, 'yes.'

It is changed to p in Sr. vicharâmi, 'I deliberate,' G. pincha-

ráva, 'to be acquainted.'

It is frequently prefixed to Sanskrit words beginning with vowels: as Sr. uchcha, 'high,' G. vuchó; Sr. anda, 'egg,' G. vantó; Sr. oshtha, 'mouth,' G. vust, 'lip;' Pers. asiav, 'mill,' G. vasiáv.

Or it is changed to b: as in Sr. vincati, 'twenty,' G. bish; Sr. varsha, 'year,' G. bersh; Sr. vac, 'to sound,' G. bashava, 'to cry out; 'Sr. vi, 'without,' G. bi.

It is dropped at the beginning of vashpa, 'tear,' G. asfa.

It is omitted, or, with a, becomes o, in Sr. lavana, 'salt,' G. lon; Sr. svap, 'to sleep,' G. sováva; Sr. çvaçura, 'father-in-law,' G. shastró; Sr. çvaçrû, 'mother-in-law,' G. shasúi.

C, Sh.—Both these Sanskrit sibilants are represented by the

Gypsy sh, pronounced as in shall, shore.

Those Gypsies who live mostly among the Greeks, however, particularly in Roumelia, frequently pronounce this consonant like the Greeks, as σ : but the Moslem Gypsies give it its proper sound, on account of their familiarity with the Turkish, where the consonant sh is extremely common. It is important to bear this in mind. Shasto, 'healthy,' I have heard pronounced very often sastó. The modern Greeks experience considerable difficulty in pronouncing this sh, excepting those inhabiting the Epirus, particularly the villages near Joannina, who give it its proper sound.

Instances are Sr. çasta, 'healthy,' G. shastó; Sr. çru, 'to hear,' G. shunáva; Sr. çringa, 'horn,' G. shingh; Sr. çastra, 'iron,' G. shastrí; Sr. çita, 'cold,' G. shil, shilaló; Sr. çulla, 'cord,' G. sheló, 'rope; 'Sr. triçûla, 'trident,' G. turshúl, 'cross; 'Sr. çaça, 'rabbit,'

G. shoshói.

C is changed to k in Sr. dric, 'to see,' G. dikava. Sh is dropped before k in Sr. cushka, 'dry,' G. shukó.

S.—This consonant needs no explanation or comparison.

H.—H is changed to k in Sr. hansa, 'goose,' G. kainá, 'hen.' It is dropped in Sr. has, 'to laugh,' G. asáva.

At times it is commutable with v: as in Sr. hasta, 'hand,' G. vast; Sr. hima, 'snow,' G. biv, viv.

SECTION V.

GRAMMAR.

The following remarks on the grammar of the Gypsy language are the results of my studies up to the present time, being drawn from my numerous notes and manuscript dialogues. The reader can see an illustration of them in the numerous colloquial phrases scattered through the Vocabulary.

ARTICLE.

The ancient Hindus had no article, and to their demonstrative pronouns correspond the articles of the cognate European languages, which have become separate parts of speech. It was natural, then, that the Gypsies, following the example of other analytical languages, should also acquire an article. In Spain, the article of the Gitanos is the Spanish: here, there is evident the influence of the Greek article; for the Moslem Gypsies use their article very sparingly, since the Turkish, which they mostly employ, possesses no article, properly speaking. The Gypsy article is o for the nom. and voc. sing. of the masc. and neut. genders, and e for the oblique cases of the singular and for the whole plural. The fem. form is i throughout. The e of the plural is at times pronounced like o.

	Singular. Masc. and Neut. Fem.		Plural.		
	Masc. and Neut.	Fem.	Maso	and Neut.	Fem.
Nom.	0	i	Nom.	e	i
Acc.	e	$oldsymbol{i}$	Acc.	e	i
Gen.	e	i	Gen.	e	i
Voc.	o	i	Voc.	e	i

Whoever is acquainted with the variations of the Greek article in the mouth of the common people, cannot be astonished by the indefinite character of the Gypsy article. Some Greeks say τζι ἀνθρώποι for τοὺς ἀνθρώποις, τζι γυναίκες for τὰς γυναίκες, ἡ γυναίκες for αί γυναίκες, etc. I am certain that whoever should attempt to investigate the Greek article, as heard in the mouth of the illiterate among our countrymen, would be extremely embarrassed in forming a clear idea of its nature, without referring to the ancient language. How then can we look for accuracy and exactitude from the mouth of this ignorant people, who have

not the least idea of anything more perfect than what they constantly use in their every day conversation?

Noun.

The Gypsy noun ends either in a vowel or a consonant.

Nouns ending in Vowels.

A few end in a: as vrehtúla, 'an extinguisher;' ásja, 'tear:' makiá, 'fly;' vária, 'weight;' gúva, 'pit;' katúna, 'Gypsy tent.'

Those ending in o are numerous, and are all of the masculine and neuter genders: as manró, 'bread;' bukó, 'bowel;' chavó, 'child;' moló, 'death;' sunnó, 'dream;' charó, 'plate:' gosnó, 'dung;' kurkó, 'Sunday;' machó, 'fish;' koró, 'bracelet;' parnavó, 'friend;' rakló, 'boy.'

Nouns in i are less numerous, and are of the masc, and fem.

genders.

Masculine nouns in i are nái, 'nail;' nilái, 'summer:' múi, 'mouth;' richiní, 'bear;' shoshói, 'rabbit;' kanglí, 'comb;' rái, 'nobleman;' angustrí, 'finger-ring;' rashái, 'priest;' churí, 'knife:' amuní, 'anvil;' gotí, 'brain.'

Feminine nouns in i are of two classes: 1, those formed from the masculine by the addition of ni: as $gur\acute{u}v$, 'ox,' $guruvn\acute{v}$, 'cow;' grast, 'horse,' grastní, 'mare;' kher, 'ass,' kherní, 'sheass;' manúsh, 'man,' manushní, 'woman;' rái, 'nobleman,' raní, 'nobleman's wife;' rashái, 'priest,' rashaní, 'priest's wife:' 2, those which are naturally feminine; as dái, 'mother;' salí, 'wife's sister; shashúi, 'mother-in-law; chái, 'girl; kamní, 'pregnant;' nubli, 'strumpet.'

There are other feminine nouns, formed from the noun by simply adding the ending i: as chukél, 'dog,' chukeli, chukli, 'bitch;' devél, 'god,' develi, devli, 'goddess.' As regards such feminine nouns as romni, 'woman,' from rom, 'a Gypsy, a man,' dasni, 'a Bulgarian woman,' from das, 'a Bulgarian,' I am inclined to think that they are properly feminine adjectives, from the masculines ending in ano: thus rom, romanó, fem. romaní, romní; dás, 'Bulgarian,' dasanó, 'of a Bulgarian,' βουλγαφικός, dasaní, dasní, 'a Bulgarian woman;' grást, 'horse,' grastanó, 'of a horse, ' tππικός, grastaní, grastní, tππική, i. e. 'mare;' manúsh, 'man,' manushano, 'humanus,' manushani, manushni, 'humana, woman.' This termination of i or ni for the fem. nouns has one exception, viz. pén, 'sister.'

Nouns terminating in Consonants.

These are by far the greatest number. The final consonants are q, qh, k, l, m, n, p, r, s, sh, t, v.

Nouns in g are beng, 'devil:'—in gh, shingh, 'horn:'—in k, yak, 'fire;' drak, 'grape;' pak, 'wing;' chik, 'mud;' nak, 'nose;' poshik, 'soil;' khaink, 'well:'—in l, prál, 'brother;' kerál, 'cheese;' turshúl, 'cross;' chukél, 'dog;' devél, 'God:'—in m, rom, 'Gypsy;' lim, 'mucus of the nose;' drom, 'road;' kam, 'sun:'—in n, armán, 'curse;' kann, 'ear;' patrín, 'leaf;' chon, 'moon;' tan, 'place;' len, 'river:'—in p, rup, 'silver;' supp, 'serpent;' chip, 'tongue:'—in r, kher, 'ass;' ker, 'house;' angár, 'coal;' mutér, 'urine;' lindr, 'sleep;' gher, 'itch:'—in s, murs, 'brave;' divés, 'day;' vus, 'flax;' mas, 'meat;' res, 'vineyard:'—in sh, manúsh, 'man;' trush, 'thirst;' bersh, 'year:'—in t, ratt, 'blood;' purt, 'bridge;' dat, 'father;' grast, 'horse;' vast, 'hand;' shut, 'vinegar;' vent, 'winter:'—in v, puv, 'earth;' pov, 'eye-brow;' giv, 'grain;' arakáv, 'guard;' suv, 'needle;' gurûv, 'ox;' gav, 'village;' nav, 'name;' lav, 'word.' The Gypsy noun has no dual number. Its declension I shall

attempt in the following remarks to make as plain as possible.

Declension of masculines in o:

Sing.

Nom. o chavó, 'the child,' Acc. e chavés, 'the child,' Gen. e chavéskoro, 'of the child,' Voc. o chavó, 'O child!'

Of masculines in i:

Sing.

Nom. o rái, 'the nobleman,' Acc. e rayés, 'the nobleman,' Gen. e rayéskoro, 'of the nobleman,' Voc. o rái, 'O nobleman!'

Plur.

e chavé, 'the ehildren,' e chavén, 'the children,' e chavénghoro, 'of the children,' o chavále, 'O children!'

Plur.

e rayé, 'the noblemen,' e rayén, 'the noblemen,' e rayénghoro, 'of the noblemen,' o rayále, 'O noblemen!'

Of masculines ending in consonants:

Sing.

Nom. o pral, 'the brother,'
Acc. e pralés, 'the brother,'
Gen. e praléskoro, 'of the brother,'
Voc. o pral, 'O brother!'
Nom. o drak, 'the grape,'
Acc. e drakés, 'the grape,'
Gen. e drakéskoro, 'of the grape,'
Voc. o drak, 'O grape!'

Plur.

e pralé, 'the brothers,'
e pralén, 'the brothers,'
e pralénghoro, 'of the brothers,'
o pralále, 'O brothers!'
e draká, 'the grapes,'
e draká, 'the grapes,'
e drakénghoro, 'of the grapes,'
o drakále, 'O grapes!'

Declension of feminine nouns:

Sing.

Nom. i dái, 'the mother,' Acc. e daiá, 'the mother,' Gen. e daiákori, 'of the mother,' Voc. e dáia, 'O mother!'

Plur.

e daia, 'the mothers,' e daia, 'the mothers,' e daiánghoro, 'of the mothers,' e daiále, 'O mothers!'

	Sing.	Plur:
Nom.	i rakli, 'the girl,'	e raklía, 'the girls,'
Acc.	e rakliá, 'the girl,'	e raklia, 'the girls,'
Gen.	e rakliákori, 'of the girl;'	e raklienghoro, 'of the girls,'
Voc.	e rakliá, 'O girl!'	e rakliále, 'O girls!"

The above examples are sufficient to show the reader the general declension of Gypsy nouns; but before I make any remarks upon the cases, it may be proper to bring forward an example from Pott's work, in order farther to elucidate the subject. I take an example from Puchmayer as found in Pott (i. 196):

	Sing.	Plur.
Nom.	cziriklo,	czirikle,
Acc.	czirikles,	cziriklen,
Voc.	czirikleja,	cziriklale,
Dat. 1,	*	*
Dat. 2,	czirikleske,	cziriklenge,
Abl.	cziriklestar,	cziriklendar,
Soc.	czirikleha,	cziriklença,
Gen.	czirikleskero,	cziriklengero.

These forms are identical with those found among the Gypsies of these countries. I decline a noun as pronounced here, following in the cases the order of the above author:

	Sing.	Plur.
Nom.	o rakló, 'the child,'	<i>e raklé</i> , 'the children,'
Acc.	e raklés, 'the child,'	e raklén, 'the children,'
Voc.	e rakló, 'O child!'	e raklále, 'O children!'
Dat. 1,	e rakléste, 'in the child,'	e raklénde, 'in the children,'
Dat. 2,	e rakléske, 'to the child,'	e raklénghe, 'to the children,'
Abl.	e rakléstar, 'from the child,'	e rakléndar, 'from the children,'
Soc.	e rakléssa, 'with the child,'	e rakléntza, 'with the children,'
Gen.	e rakléskoro, ' of the child,'	e raklénghoro, 'of the children.'

To the reader, at first sight, such a declension must appear wonderfully rich and expressive, and so much the more, as it is in the mouth of a people who have no intellectual cultivation, and who would naturally simplify their language to the utmost. But all this richness, which even the Sanskrit does not possess, is owing merely to the union of particles with the noun in its simplest form; for the Gypsy noun has properly only four eases; nominative, accusative, genitive, and vocative; while to the accusative are joined all these particles, which are similar in both numbers, and cannot be properly considered as forming cases. Before proceeding to speak of the formation of each case separately, I shall analyze a noun, in order to illustrate and make plain the combination of which I have spoken:

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^{*} These cases, omitted by Puchmayer, are czirikleste in the singular, and cziriklende in the plural.

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	Sing.	Plur.
Nom.	o rakló,	e raklė,
Acc.	e raklês,	e raklén,
Dat. 1,	e raklés-te,	e raklén-te,
Dat. 2,	e raklés-ke,	e raklén-ke,
Abl.	e raklés-tar,	e raklén-tar,
Soc.	e raklés-sa,	e raklén-sa,
Gen.	e raklés-koro,	e raklén-koro.

The occurrence of the liquid n in the plural varies considerably the pronunciation of the following consonants, thus:

Dat. 1,	raklén-te	is pronounced	raklénde,
Dat. 2,	raklén-ke	- "	raklénghe,
Abl.	raklén-tar	**	raklêndar,
Soc.	raklén-sa	"	rakléntza,
Gen.	raklén-koro	"	raklénghóro.

In this manner the declension of the Gypsy noun becomes extremely clear, and can be reduced to very simple elements. There is no more reason for calling rakléndar a case than for giving the name of cases to all those adverbs in Greek which are formed by the ablative particle $\vartheta \varepsilon \nu$, or to such Latin words as mecum, tecum, which correspond with the so-called social case of the above Gypsy nouns.

The same mode of declension which is followed by nouns ending in o holds good also as regards feminine nouns ending in i, and the appended particles are not less distinct and clear. As an instance, I give the forms of declension of romni, 'woman:'

```
Sing.
Nom.
           i romní,
                                        i romnia,
Acc.
           i romniá.
                                        i romnía,
Dat. 1, i romniá-te,
Dat. 2, i romniá-ke,
                                       i romnían-te (romníande),
                                        i romnian-ke (romnianghe).
Abl.
           i romniá-tar,
                                        i romnian-tar (romniandar),
Soc.
            i romniá-sa.
                                        i romnian-sa (romniantza),
            i romniá-kori.
                                        i romnían-koro (romnianghoro).
```

This comparison of the declension of masculine and feminine nouns is interesting, as it demonstrates two particulars in the history of the Gypsy noun. First, were it not for the so-called social case of the plural, we should have been at a loss to know whether the final syllable of the singular case was a sa, or a simple a united to the accusative, since all nouns without distinction have this termination: thus grast, 'horse,' grastéssa, 'with a horse' ('on horseback'); rái, 'a nobleman,' rayéssa, 'with a nobleman:' plur. grasténtza, 'with horses;' rayéntza, 'with noblemen.' In the feminine gender the case is clear, since Gypsies say rakli, 'a female child,' acc. rakliá; soc. sing. rakliá-sa, 'with the female child.' This evidently proves the addition of the

syllable sa to the accusative, which we shall presently consider. As to the plural social, the fact is palpably evident: thus $pir\acute{o}$,

piréntza, 'with feet;' chavó, chavéntza, 'with children.'

The second consideration, which is extremely important, is that though in the accusative plural of feminine nouns no final n exists, it is to be found in all the compound cases of the plural: a fact which to me amply demonstrates the former presence of this liquid in the accusative plural, although the Gypsies have later entirely abandoned its pronunciation.

I will now proceed to consider more in detail the formation of

the different cases, taking them up in their order.

Accusative singular.—This case, in the singular of nouns ending in o, is es: thus parnavó, 'friend,' acc. parnavés; machó, 'fish,' machés; sunnó, 'dream,' sunnés; manró, 'bread,' is often used unchanged: as khandí manró kháva, 'I eat a little bread.' Feminine nouns in i form the acc. in a, with the accent on this vowel: as romní, 'woman,' acc. romniá; butí, 'business,' butiá: nublí, 'strumpet,' nubliá. Nouns in a generally have the same form in the accusative: as ásfa, 'a tear,' acc. ásfa; katúna, 'a Gypsy tent,' acc. katúna. To me, however, such words, which are few, are properly nouns forming the accusative in as or es, judging from their genitives etc.: as katunéskoro, 'of the tent;' a form of this character presupposes an accusative katúnas or katúnes, of which, in ordinary usage, the final s has been dropped. Nouns ending in consonants, by far the most numerous, form their accusative by the addition of es: thus pral, 'brother,' acc. pralés; tan, 'place,' tanés; dat, 'father,' datés; gav, 'village,' gavés. In nouns ending in el and er, as devél, 'God,' chukél, 'dog,' tovér, 'axe,' etc., the final syllable drops its vowel: thus devél, acc. devlés; chukél, chuklés: tovér, tovrés.

Nouns ending in k, as pak, 'wing,' yak, 'fire,' are generally pronounced in the accusative with the vowel a: as paká, acc., 'the wing,' yaká, 'the eye.' The regular accusative form, with its final s, is observed in the genitive pakéskoro, 'of the wing,' yakéskoro, 'of the fire.'

Taking the compound cases, so uniform in their formation, as a guide, it appears to me not implausible to lay down the general rule that the accusative singular of all Gypsy nouns of the mas-

culine gender ends in s, and of the feminine in a.

Vocative singular.—This case, of which few Gypsies can give any account, is formed, in nouns ending in o, by changing this vowel to e: as choró, choré, 'O poor man!' δ πωχὲ; chavó, chavé, 'O boy!' In the feminine it is formed by adding a to i: as dúi, dúia, 'O mother!' In nouns ending in consonants this case is formed by the addition of e: as manúsh, manúshe, 'O man!' dat, dúte, 'O father!'

Nominative plural.—In this case, the forms are nearly the same with those just given. The nominative of nouns ending in o is formed by changing this vowel into e: as chavo, 'child,' chave, 'children;' charó, charé, 'plates;' rakló, raklé, 'boys;' bakró, bakré, 'sheep.'

Nouns in i, whether masculine or feminine, form the nominative plural by the addition of a: as rakli, raklia, 'girls;' romni, romnía, 'women;' rái, ráia, 'noblemen;' rashái, rasháia, 'priests.'

Nouns in k, by the addition of a: as yak, yaká, 'eyes;' pak, paká, 'wings;' ruk, ruká, 'trees:'—also those in v: as pov. pová. 'evebrows.

Nouns ending in other consonants, by adding e: as grast, grasté, 'horses;' manush, manushé, 'men;' pral, pralé, 'brothers.' vowel is, however, often interchanged with a: as romé or romá, 'Gypsies.'

Accusative plural.—This case, of which I have already had occasion to speak, is formed, in nouns ending in o, by changing this vowel to en: as chavó, chavén, 'children;' bukó, bukén, 'bowels:'

parnavó, parnavén, 'friends.'

In feminine nouns in i, it is formed by the addition of a: as romní, romnía, 'women;' chái, chaia, 'girls;' nubli, nublia, 'harlots.' The same vowel is added also to masculine nouns ending in i: as rashái, rasháia, 'priests;' múi, múia, 'mouths;' nái, náia, 'nails:'—also to nouns ending in k and v: as pak, paka, 'wings;' drak, draká, 'grapes;' triák, triaká, 'shoes;' pov, pová, 'eyebrows;' gav, gavá, 'villages.'

In all the numerous class of nouns ending in other consonants, this case is formed by the addition of en: as grast, grastén. 'horses;' pral, pralén, 'brothers;' shingh, shinghén, 'horns.'

Vocative plural.—This case is formed, in nouns ending in o, by the change of the final vowel to ále: as choró, chorále, 'O poor men!' chavó, chavále, 'O children!' In nouns ending in consonants the same formation is observed: as róm, romiále or romále, 'O Gypsies!' manúsh, manushále, 'O men!' Likewise in feminine nouns in i: as rakli, rakliále, 'O girls!' and also with masculine nouns in i: as rashái, rashále, 'O priests!'

The reader must not suppose that there is to be found in the Gypsy the uniformity observed in many other languages, where grammatical usages are more constant, and where even the language of the most ignorant has always had persons of more refinement speaking it. On the contrary, among the Gypsies there is such a difference in pronunciation, and such tendency to alter the vowels in these case-endings, that the subject at times becomes extremely difficult and embarrassing.

There are remnants of the locative case of the Sanskrit, but the case itself does not exist as an independent one: its place is supplied, as in most European languages, by a particle: the remnants referred to are ratti, aratti, 'by night;' telé, 'under, below;'

anglé, 'forwards.'

Genitive, singular and plural.—The genitive is formed by the addition of koro, in both numbers and genders: as richini, richinéskoro, 'of a bear;' sunné, sunnéskoro, 'of a dream;' pak, pakéskoro, 'of the wing;' richinénghoro, 'of bears;' sunnénghoro, 'of dreams;' 'pakénghoro, 'of wings.' In the feminine, dái, daiákori, 'of the mother;'* chori, choriákori, 'of the poor woman;' plur. daiánghori, 'of the mothers;' choriánghori, 'of the poor women.'

This termination, which is no other than the Sanskrit word kara (Gr. ποιος, Lat. faciens), from the root kri, 'to make,' serves also to form a great variety of nouns, in a way similar to the Greek and Latin terms mentioned. Thus charó, 'plate,' charéskoro, 'of a plate,' and 'a plate-maker;' shastri, 'iron,' shastiréskoro, 'of iron,' and 'a worker in iron;' buti, 'business,' butiákoro, 'of the business,' and 'a business man, a craftsman;' bar, 'stone,' baréskoro, 'of a stone,' and 'a stone-cutter;' mas, 'meat,' maséskoro, 'of the meat,' and 'butcher;' angár, 'coal,' angaréskoro, 'of the coal,' and 'a collier.' All these terms, and many other similar ones, serve as genitive cases, and are used also frequently as adjectives: thus katúna, 'Gypsy tent,' katunéskoro róm, 'a Gypsy of the tent,' i. e. σκηνίτης; katunéskeri romní, 'a Gypsy woman of the tent.' Like all other adjectives, these nouns take the usual feminine termination in i: as butiakori, 'a craftswoman;' maséskori, 'a butcher's wife;' machéskori, 'a female dealing in fish.' In the declension, also, the final o of the genitive masculine constantly becomes i in the feminine: as rani, 'the nobleman's wife, gen. raniákori, and never raniákoro.

The confusion resulting from the identity of these terms is somewhat avoided by the use of the masculine article o: o katunéskoro, 'the tent-maker,' e katunéskoro, 'of the tent;' o maséskoro, 'the butcher,' e maséskoro chavó, 'the child of the butcher.'

There is no other genitive throughout the Gypsy language than that formed by the termination *koro*: we shall meet it in both adjectives and pronouns, constant and invariable, demonstrating amply that the genitive case is properly a possessive, which in course of time lost entirely this signification.

I come now to consider the other four so-called cases, the first and second dative, the social, and the ablative; and as they are common to the nouns and pronouns, what I offer now is equally applicable to both. As I differ in my view of them from all who have written on the subject before me, it is just to lay before the reader the reasons which have convinced me, and have brought me to an independent conclusion.

^{*} Pronounced often dákori and dákeri.

Also daiánghere.

Grellmann appears first to have studied the formation of the cases of the Gypsy noun, and all subsequent writers have more or less imitated him. I have remarked, in speaking of the noun, that it has properly only two cases, the nominative and the accusative, from which latter is formed the genitive, by the addition of koro, both in the singular and plural, and both in the masculine and feminine. I have given also the cases of other authors, called dative first and second, social, and ablative. The two datives end in te and ke respectively, the social in sa, and the ablative in tar; in the plural, they end usually in de, ghe, tza, and dar, owing to the preceding liquid n, which, though lost at present in the accusative, has been tenaciously preserved in the compounds. social and ablative are well understood, but the difference between the two datives is not well defined in the grammars of this idiom. The dative ending in te means, according to what I have been able to ascertain, 'in, within:' as me sunnéste, 'in my dream;' me tanéste, 'in my town;' teráva me sheréste, 'I have in my head;' me gotiáte, 'in my brain;' me praléskoro keréste, 'in the house of my brother; terávas duk me boriáti, 'I had pain in my belly; te praléskoro biavéste, 'in the marriage of thy brother." This is often heard inverted: as ti pak, 'in the wing,' for pakéste; ti biáv, 'in the marriage,' for biaveste; ti ker, for kereste, 'in the house.' These examples fully elucidate the meaning of the particle te, joined to the noun.

The second dative, ending in ke, means 'to, towards:' as ma pen yavréske, 'do not say (it) to another;' machénghe lon chivéla, 'he throws salt to the fish;' oghéske, 'to the soul,' or 'for the soul.' The Gypsies, as in the former case, seem to be abandoning this form, and make use of ko and ke before the noun. Still the regular form is extremely common in the pronouns, where less license can be taken, and where the meaning of these forms may be still farther explained and clearly understood. Examples of similar inversions we have in modern Greek, where ἐδῶθεν, ἐπεῖθεν have been abandoned for ἀπ' ἐδῶ, ἀπ' ἐπεῖ, and the like; and in some parts of Greece, as the Ionian islands, for ἀπ' ἐδῶθεν, ἀπ' ἐπεῖθεν, a usage found existing among the Greeks of Homer's

time.

In the pronouns, the particle ke is never placed before the term to be expressed, as is the case often in nouns: thus pen mánghe (for mán-ke), 'say to me;' yavréske, 'to another;' aménghe, 'to us;' tuménghe, 'to you;' túke, 'to thee;' léske, 'to him;' láke, 'to her;' lénghe, 'to them.' This particle is also often joined to numerals: as keténghe kinghián les? jovénghe, 'for how much didst thou buy it? for six;' bishénghe, 'for twenty;' and so with all the numerals.

The above examples prove the signification which this particle imparts to Gypsy words, and, though less in use than the other particle te. it is still extremely clear and definite.

The social case, formed by the addition of sa (probably the Sr. saha, 'with, together with'), is simple in its construction, and very plain in its signification, both in the singular and plural. It denotes junction, union, and accompaniment, and is united to both nouns and pronouns: as jáva grastéssa, 'I go with a horse' (i. e. 'on horseback'); pindéntza, 'with the feet' (i. e. 'on foot'); yavré rakléntza, 'with other children;' romniása, 'with the woman;' romniantza, 'with the women.' In the pronouns it is universally found: as mántza, 'with me,' Lat. mecum: tása, 'with thee;' améntza, tuméntza, léntza, 'with us, with you, with them.'

The ablative, formed by the addition of tar (probably the Sr. tas, which has the same signification, and a somewhat similar use), is found also constantly in both numbers and genders, and in both nouns and pronouns. That it is a particle, independent of the noun, is amply demonstrated by its use in verbs and participles, whenever action from a place is intended to be expressed: thus nastótar, 'after he departed' (nastó, part., 'departed, gone'); tapilótar, 'after it was buried;' alliátar, 'after he came;' kamulótar, 'after dying;' pelótar, 'after falling.' So also in sostár, 'because.' formed evidently of so—the neut. of kón, 'who'—and tar; and in the local adverbs, as até, 'here,' attúr, 'from here.' These examples cannot be made to support the opinion of those writers who would make this a case. On such principles we should be compelled to regard as cases all those combinations with particles which impart the idea of direction of action to the noun, or indicate its relation to another object, whether animate or inanimate.

Such are the considerations which have induced me to exclude from the declension of the noun all these forms, which are not cases in the proper sense of the word, and to limit that appellation to the nominative, accusative, genitive, and vocative alone.

Diminutive nouns are formed by the addition of oro, and are frequently to be heard among all the Gypsies: thus grast, 'horse,' grastoró, 'a small horse, a young horse;' chavó, chavoró, 'a young child;' das, dasoró, 'a young Bulgarian;' jut, jutoró, 'a young Jew;' ternó, ternoró, 'a youngster. The fem. of these diminutives is regular: as chavorí, 'a young female child;' dasorí, jutorí, ternorí, etc. They are declined like other nouns in o and i.

Another class of diminutives ends in tzo: as baló, 'hog,' balitzó, 'a young pig;' bakró, bakritzó, 'a lamb.'

Adjectives.

Adjectives end in o, plural e, and correspond in their declension to nouns in o. There are some exceptions to this rule: as sukár, 'beautiful;' naisukár, 'ugly;' naisváli, 'invalid;' kasukír, 'deaf;' namporemé, 'sick.'

All adjectives ending in o and in consonants are masculine or neuter. The feminine is formed by changing o to i: as kaló, 'black,' kalí romní, 'black woman:' melaló, 'dirty,' melalí chái,

'dirty girl.'

The feminine of the above mentioned adjectives not ending in o is formed by adding i, often with some variations of the final syllable: as sukár, 'beautiful,' fem. sukarorí or sukari; naisváli serves for both genders; kasukóv, fem. kasukóvi, 'deaf woman.'

The other adjectives not ending in vowels are declined like

nouns ending in the corresponding consonants.

When adjectives are used otherwise than attributively, they are thus declined like nouns; but when in combination with substantives, these latter receive the case-terminations, and the adjectives then change their o into e: as e kaléskero, 'of the black (mau),'e kalé manushéskoro, 'of the black man;' melalén chavén (acc.) is pronounced melalé chavén, 'the dirty children.' I think, however, we may come nearer the truth in assuming that the adjectives, in the accusative of both genders, drop the final s and n in pronunciation.

The comparative degree of the adjective is extremely variable. It is mostly formed by adding to the positive the particle po, which appears to me to be the Greek nhéor, pronounced by us at present niù: as po lachó, 'better;' po kaló, 'blacker;' po vuchó, 'higher.' What inclines me to believe that this is our niù for nhéor is the fact that the Moslem Gypsies, less acquainted with the Greek, adopt the corresponding Turkish word daha, which the Turks universally use to form their comparative degree: thus daha ey, 'better.' They are not acquainted with the particle po, and only a few use it, who mingle with their fellow-countrymen the Christian Gypsies. Po is not confined to the pure adjective, but is also used in the adverbial form: as po lachés, 'better,' Gr. xállior, Lat. melius: po vuchés, 'higher,' vynlótegor, altius.

Though this is the most constant form of the comparative, and though the Gypsies have in this respect imitated their neighbors, who have lost in great part the ancient forms of the comparative, and have substituted in its stead the nkėv, the Gypsy language has preserved traces of the ancient comparative of the Sr. in tara, the regos of the Greeks, and which in Persian is regular and extremely common. The Latin has not preserved so universally as the Greek this original ending of comparison, although it evi-

dently exists in such terms as exter, inter, alter, etc.

The Sr. tara is evidently to be recognized in such words as me baredér (baro, 'great'), 'my superior;' me uchedér (uchó, 'high'), 'one higher than me,' δψηλότερος ἐμοῦ. In this form the word is at times to be heard, though it is necessary to remark that it is not common, and that the Gypsies prefer saying me po lachó. me po uchó. At times, like other ignorant people, they

join the particle po to the comparative: as po kaloder, 'blacker,' lit. 'more blacker;' po parnodér, 'more whiter.' In this they have every day imitators, among the Greeks particularly, who say πιὸ ύψηλότερος, πιὸ μεγαλήτερος, for simple ύψηλότερος and μεγαλή-This form of the comparative is, I am sorry to say, fast going out of use. One may hear Gypsies discourse for a long time without suspecting its existence.

As to the superlative, I know of none. Gypsies experience the same difficulty as the common Greeks, when they attempt to express such an idea: thus lachó, 'good;' po lachó, 'better;' o po lachó, 'the best;' o po kaló, 'the blackest;' Gr. καλὸς, πιὸ καλὸς, ὁ πιὸ καλὸς, 'the best.'

From the adjectives are formed adverbs, as numerous as the adjectives, and here the Gypsies experience no difficulty. All these terms, extremely common among them, are formed by changing the final o into es. They are simple and very expressive: thus lachó, 'good,' lachés, 'well;' shuchó, 'clean,' shuchés, 'in a clean manner;' romanó, romanés, 'in a Gypsy manner;' dasanó, dasanés, 'in a Bulgarian manner.' These latter forms correspond to the Greek ατζιγκανιστί, βουλγαφιστί.

To these adverbs is prefixed the comparative particle po: as po vuchés, 'higher, altius;' po lachés, 'better;' po kalés, 'blacker.' Also to the proper adverbs of place: as po anglal, 'farther ahead;' po nápalal, istili more backwards; po andré, farther inwards;

po avrí, 'farther outwards.'

The Moslem Gypsies use precisely the same expression, substituting the Turkish daha for po, as we have already remarked, in treating of the formation of the comparative: thus daha vuchés, daha lachés.

Pronouns. Personal. 1st Person. Plur. amén, 'we,' amán, 'us,' Nom. me, 'I,' Acc. man, 'me, { amaro, } of us. of me, 2d Person. Sing. Nom. tu, 'thou,' tumén, 'ye,' tumén, 'vou,' Ace. tut, 'thee,' tindó, { of thee, { tumaró, } of you. VOL. VII.

Sing.

3d	Person,	masc.

Sing.	Plur,
Nom. ov, 'he,'	ol, 'they,'
Acc. tes, 'him,'	len, 'them,'
Gen. léskero, of him,	lénghero, 'of them.'

3d Person, fem.

Sing.	Plur.
Nom. ov, 'she,'	o, 'they,'
Acc. ta, 'her,'	len, 'them,'
Gen. lákero, 'of her.'	lénghero, 'of them.'

Possessive.

Sing. masc. and neut.	fem.	1st Ierson. Plur.	
Nom. mo,	mi,	me, 'my,'	amaró, 'our,'
Acc. mo,	mi,	me, 'my,'	amaré, 'our,'
Gen. me,	me,	me, 'of my,'	amarénghoro, 'of our.'

2d Person.

Sing. masc. and neut.	fem,	Plur.	
Nom. to,	ti,	te, 'thy,'	tumaró, 'your,'
Acc. to,	ti,	te, 'thy,'	tumaré, 'your,'
Gen. te,	te,	te, 'of thy,'	tumarénghoro, 'of your.'

3d Person.

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masc.	fem.	Ttur.	
léskero, fof him,	lákero, j'of her,	léskere, 'of his,'	olénghero, fof them,

Whenever the possessive pronoun is used substantively, mo becomes $mind\delta$ or $minr\delta$; to becomes $tind\delta$ or $tinr\delta$. The reader has already seen numerous illustrations of this general usage in the Vocabulary. All the pronouns are declined like nouns in o and i.

There is another form of the possessive pronoun, which is not common among the Gypsies in these countries, viz. pes and pi. The first is never used except with the 3d person of the passive verb, and corresponds to the usual les, 'him;' the second, pi, is a form often found in the place of léskero, 'of him, his.' To many Gypsies this latter is entirely unknown.

The perusal of the above pronouns illustrates the general usage of many languages, where the genitive of the personal pronoun seems to form most of the possessives, varied according to their union with the substantive. Compare Gr. $\hat{\epsilon}\gamma\dot{\omega}$, gen. $\hat{\epsilon}\mu o\bar{v}$; $\hat{\epsilon}\mu\dot{\omega}_{5}$, $\mu\dot{\omega}_{5}$, $\hat{\epsilon}\mu\dot{\epsilon}\tau\epsilon_{6}$, etc.

Before comparing these pronouns with those in the Sanskrit, I shall elucidate the use of them by familiar colloquial phrases, by which their meaning and proper employment may be more perfectly understood. The same particles which we have so frequently met in studying the nouns, forming a kind of cases, will be observed also with these pronouns. The reader can easily understand them by simply referring to what we have said on the subject there.

Ist Person.—Kon déla o vutár? 'who knocks at the door?' me isóm, 'it is I,' tyò tīu; me nastí keráva, 'I cannot do;' kon isí? me, 'who is it? I.' Kayék jenó na janéla man, 'no one knows me;' te des man, 'that thou shouldst give me;' de man, 'give me;' ma de man, 'do not give me;' ma kus man, 'do not revile me;' mukéla man, 'it leaves me.' Me praléskero keréste, 'in the house of my brother;' me grastéskoro i zen, 'my horse's saddle;' bi mánghoro, 'without me.' Amén isámas otiá, 'we were there.' Na dukél' amán, 'he does not love us.' Amaró manúsh, 'our man;' amaré manushé, 'our men;' amarí chip, 'our language;' diniás amaré chuklés, 'he struck our dog;' gurumní amarí, 'our cow;' amaré gotiáte, 'in our mind;' kon diniás amaré peniá? 'who struck our sister?'

2d Person.—Tu ghellián ti pólin? 'didst thou go to the city?' tu kerghiánles?' didst thou make it?' tu nasú kerésa, 'thou canst not do it.' Na reséla tut, 'it does not suffice thee;' murdaráva tut, 'I kill thee;' allióm ta dikáv tut, 'I have come to see thee.' Te gavéskoro manushé, 'the men of thy village;' te praléskoro nav?' the name of thy brother?' Nanái tindó, 'it is not thine;' isí tindó, 'it is thine.' Tumén so penása? 'what do ye say?' Tumaró biáv isí? 'is it your marriage?' tumaré kheréskoro, 'of your ass.'

3d Person, masculine.—Ki ov ki isás otiá, 'and he who was there;' méya, túya, ki ov, 'and I, and thou, and he,' Kamáva les, 'I want him;' astarghióm les, 'I seized him;' dikáva les, 'I see him.' I romní léskoro, 'his wife;' léskoro dat, 'his father;' anglé isás oléskoro, 'formerly it was his;' isí oléskoro, 'it is his.' Ol manushé, 'those men.' This pronoun is rarely used, and in its stead the Gypsies employ aklá, akiá, 'these,' which we have noticed in the Vocabulary. Na maréla len, 'he does not beat them;' dikióm len, 'I saw them;' na picharáv len, 'I do not know them.' Lénghero vasiáv, 'their mill;' lénghero lové, 'their money.'

3d Person, feminine.—Ol romní, 'that woman;' ol gurumní, 'that cow.' Diklióm la yek divés, 'I saw her one day;' bighián la, 'he sold her;' marélala, 'he beats her.' Lákero pral keréla shastrí, 'her brother makes iron;' lákeri dat, 'her father;' lákeri moskári (Gr. μοσχάφι), 'her calf;' lákeri chuchía, 'her breasts.' The plural is similar to the plural of the 3d person masculine.

Possessives.—These are extremely regular. Mo dat, 'my father;' mo sheró, 'my head;' mi dái, 'my mother;' mi peu, 'my sister.' To rom, 'thy husband;' ti romní, 'thy wife;' ti gurumuí,

'thy cow.' Kaléskero isí o ker? 'whose is the house?' isí mindó or minró, 'it is mine.' No Gypsy says isí mo. The plural does not differ from the declension of adjectives in o. Me lové, 'my money;' me yismata, 'my linen;' te tikné isí melalé, 'thy children are dirty;' so keréna te chavé? 'how are thy children?' Lénghero is used both for the masculine and feminine of the 3d person: lénghero chavé, 'of these (women) the children;' lénghero lové, 'of these (men) the money.' Though these pronouns are pronounced without an initial vowel, it appears to me, judging from the nominative ov, o, that they should be written olénghero, olúkero.

There is a particular form of the 1st and 2d personal pronouns, extremely common among all the Gypsies, and which cannot but strike a person in conversation with them. This form is méya, 'I also;' túya, 'thou also;' améya, tuméya, 'we, ye also.' Méya pincharávales, 'I also am acquainted with him;' isás léskoro, méya kinghióm les, 'it was his, and I bought it;' túya kamovés ti gav, 'and thou wilt be in the village;' améya, tuméya ki ol t' avén, 'and we, and ye, and they should come.'

Relative.

The declension of the relative pronoun, which we have already noticed in the Vocabulary, is as follows:

Sing.,			Plur.
masc.	fem.	neut.	
Nom. kon,	kayá,	so,	80,
Acc, kalés,	kalé,	kalés,	kalén,
Gen. kaléskoro.	kaléskeri.	kaléskoro.	kalénghero.

It is extremely difficult to obtain an exact statement of this pronoun; even with all my endeavors, I do not know whether I have set down the proper forms. The feminine kayá is rarely heard, and the masculine is often substituted in its place. Both Turks and Greeks have corrupted their relative pronouns. The latter rarely use anything else but their ri, for ris, ri, rives, riva, etc. Of course, the Gypsies are no better than their neighbors. It is for this reason that I have not written the feminine and neuter of the plural, as I have been particular in the course of this memoir not to give to the public aught but what I am confident is true.

All the foregoing pronouns are found united to those particles which we have noticed in speaking of the cases of nouns. They corroborate what I have already advanced, that the so-called cases of the Gypsy noun are particles united to the accusative, varying according to the characteristic final consonants s or n.

For farther illustration of this subject, I shall follow the same plan which I have adopted in other parts of this memoir. Beshéla bashé mánde, tuménde, lénde, 'he lives near me, you, them;'

me jáva túsa, 'I go with thee;' mánja, 'with me;' nash améndar, 'depart from us;' oléndar, 'from them;' nasháva tuméndar, 'I depart from you;' penéna mánghe, 'they say to me;' sóske puchésa mándar? 'why dost thou ask me?' so kapenés mánghe? 'what wilt thou say to me?' kapucháv léstar, 'I shall ask him;' o devél teréla lénghe, 'God has (care) of them;' kaléste pashé? 'near whom?' bi mángoro nastí kerésa, 'without me thou canst not do;' sarnénghe ta penés les, ke tumarénghe, k' amarénghe, sarné parnavénghe, 'tell it to all, and to your, and to our, and to all the friends;' penghiá mánghe mi túi, 'said to me my mother;' te penáv túke, 'that I may speak to thee;' dikiniló láke, 'appeared to her;' te jivél túke, 'may it live to thee' (a form of salutation when an animal is bought), Gr. và σοῦ ζήση; andré lénde, 'within them.'

The following is the complete declension of the personal pronoun, with its particles.

Plur. Sing. Nom. me, 'I,' amén, 'we,' man, 'me,' amán, 'us,' Acc. aménde (amén-te), 'in us,' Dat. 1, mánde (mán-te), 'in me,' aménghe (amén-ke), 'to us,' Dat. 2, mánghe (mún-ke), 'to me,' améndar (amén-tar), 'from us,' mándar (mán-tar), 'from me,' aménja (amén-sa), 'with us,' Soc. mánja (mán-sa), 'with me,' amenghoro (amén-koro), 'of us.' mánghoro (mán-koro), 'of me,'

The genitive, of both singular and plural, is never used except in connection with bi, 'without:' bi mánghoro, bi aménghoro, 'without me, without us.'

	Sing.	$Plur_{\bullet}$
Nom.	tu, 'thou,'	tumén, 'ye,'
Acc.	tut, 'thee,'	tumén, 'you,'
Dat. 1,	tútte, 'in thee,'	tuménde, 'in you,'
Dat. 2.	túke, 'to thee,'	tuménghe, 'to you,'
Abl.	tútar, 'from thee,'	tuméndar, 'from you,'
Soc.	túsa, 'with thee,'	tumėnja, 'with you,'
Gen.	*	tuménghoro, 'of you.'

In a similar way are declined all the other pronouns. The reader has had frequent occasions to observe the cases of the relative *kon*, 'who,' in the Vocabulary.

Though the Gypsies are fond of placing these particles before the noun—as ti len, 'in the river,' for lenéste; ti ker, 'in the house,' for keréste—and though the ablative particle tar is found united to indeclinables as often as to nouns, still, in the cases of pronouns, these particles seem to be constant, and so tenacious, that a Gypsy will laugh at your ignorance, if he should ever hear you saying te man instead of mánde, ko man instead of mánghe.

^{*} Unknown to me.

VERB.

The Gypsy verbs may be classified in two methods:

1st, Verbs Simple and Verbs Compound;

2d, Verbs Neuter, Active, Middle, and Passive.

Simple verbs are those in which the Gypsy verb is the simple Sanskrit root: as dikáva, 'I see;' shunáva, 'I hear;' asáva, 'I

laugh.'

Compound verbs are made up of a primitive word in combination with a verb, such as keráva, 'I do,' aváva, 'I come,' dáva, 'I give.' I have spoken of these verbs in the Vocabulary (see to CHEW), and have shown that the usage corresponds with that of the Persians. Keráva, 'I do,' the kerden of the Persians (Sr. kri), united to the primitive word, serves to form active verbs: as chamkeráva, 'I chew,' i. e. 'I make chewing;' vrakeráva, 'I talk,' i. e. 'I make speech.' This form of the compound verb is not so common among the Gypsies as among the Persians or the Turks, for the Gypsies have another form of transitive verbs which they prefer, as more congenial to their language: at least, so it appears to me from their conversation. In fact, the reader will observe that in the Vocabulary, in a long list of verbs, there occur few compound ones. By many Gypsies these verbs are never used, since they prefer the other form of the transitive verb, of which I shall presently speak. The second verb, aváva, 'to come,' the ameden of the Persians, is extremely common, and serves to form a long list of passive verbs, by combination with adjectives and participles: as phuriováva, 'to become old,' Gr. γηράσχω, Lat. senesco; bariováva, 'to become great;' bukaliováva, 'to become hungry;' khokhavniováva, 'to be cheated;' mattiováva, 'to become intoxicated;' shukiováva, 'to become dry;' melaliováva, 'to become dirty.' So natural and easy is this form to the Gypsies, that they are constantly using it, and with very little variation. Aváva, in combination with the adjective or participle, possesses the signification of the Latin fieri, 'to become,' and, of course, no other form but an adjective or a participle is ever united to it. The final vowel of the adjective or participle and the initial a of the verb are blended in such a manner that they produce io: as mattó-aváva, mattiováva. This pronunciation is very constant. The reader has seen frequent examples of such compound verbs in the Vocabulary, and will have remarked their signification in the numerous colloquial phrases given under the various verbs.

I do not refer to this class of verbs those which are formed with the auxiliary isóm, 'to be,' and more rarely with teráva, 'to have,' since these do not differ from similar verbs in other

languages.

Neuter verbs are very common, and are formed directly from the Sanskrit root, without any alteration. They are in fact the Sanskrit verb itself, with its active present, of which the final syllable mi is simply changed into va: as charáva, 'I graze,' Sr.

charâmi; asáva, 'Í laugh,' Sr. hasâmi.

Active verbs.—Besides those formed by the addition of kerάva to the root, and which are naturally active, the Gypsies form another and very numerous class, whose characteristic sign is the penultimate ra: as taparáva, 'I heat,' Gr. θερμαίνω. This formation is so natural, and so usual, that a Gypsy is never at a loss to understand it, or instantly to form it, even were it from a Turkish or Greek root. To his mind it always conveys the idea of a transitive action, precisely as we say ἀγαπῶ, 'I love,' ἀγαπίζω, 'I induce love, I make one love.'

These transitive verbs must not be confounded with such neuter verbs as have the penultimate in ra, and which originate from a root ending in r: as choráva, 'I steal,' daráva, 'I fear,' teráva, 'I have,' mutráva, 'I void urine.' Verbs of this class are of four syllables, while nearly all the Gypsy neuter verbs have three, and a few only two: as dáva, 'I give.' láva, 'I take.'

These verbs are formed by the addition of aráva to the primitive root: as murdaráva, 'I murder:' taparáva, 'I cause to burn;' muntaráva, 'I shave one.' Tapáva, 'I heat,' is a striking example of the variation of the Gypsy verb: Sr. tap, 'to torment, to heat;' G. tapáva, 'I feel warm;' taparáva, 'I cause to burn;'

tattiováva, · I become hot.'

Middle verbs.—These are extremely simple, formed by the addition to the verb of the accusative cases of the personal pronouns, precisely as the Europeans form their verbs of a similar

signification: thus Fr. je me lave; It. io mi lavo.

Passive verbs.—These are rarely used by the Gypsies, who prefer the active voice, and instead of saying "I was beaten," adopt the expression "one has beaten me." On this account. the passive voice is extremely difficult to describe, and such are the circumlocutions to which the Gypsies have recourse whenever they desire to express a passive idea, that one wonders at the ambiguity and vagueness of their language. Often they differ so much that the hearer doubts whether he has understood them. In a long discourse, the hearer may not meet with a single passive form. Even after satisfying himself that a verb is passive, upon pronouncing it in the hearing of other Gypsies he may meet with contradictions, or his hearers may be unable to understand him. In such cases, a Gypsy may tell you that such an expression is not Gypsy, and that the speaker has no knowledge of his language. In fact, I have written many paradigms of passive verbs formerly, and, upon examining them, I have found that they were at variance with sound grammatical principles. For a long time I thought the Gypsies had no passive voice. Still not despairing, I have made the paradigm of the passive

verb, and have finally satisfied myself as to the truth of its

grammatical construction.

The reader will see this passive form in the following pages. At times the middle voice is used, with the accusative pronouns constantly joined to the verb. At times the compound form is used for the passive, and the verb which is united is evidently aváva. It is united to the Sanskrit root, and not to adjectives and participles, as in the more common compound verbs.

These observations will be better elucidated by paradigms of the verb, after giving which, I shall proceed to speak of the formation of the tenses. I hope that this course, which I have followed in my studies on the subject, will be of service to the reader, assisting him to form a clear understanding of the various forms and significations of the Gypsy verb, and of its inti-

mate relationship to the Sanskrit.

Of the auxiliary verbs teráva, 'I have,' and isóm, 'I am,' I have little to say. The first is rarely used to form such verbs as we see in modern European languages. Its use is mainly restricted to express the idea of possession: as teráva duk, 'I have pain,' i. e. 'I am in pain.' Isóm forms a perfect passive, which I shall note in its proper place.

Isom, 'I am.'

,
Present

	Present.
Sing.	Plur.
1. isóm, 'I am,'	1. isámas, 'we are,'
2. isán, 'thou art,'	2. isána, 'ye are,'
3. isi, 'he is,'	3. isi, 'they are.'
	Imperfect.
Sing.	Plur.
1. isomas, 'I was.'	1. isámas, 'we were

Future.

2. isánas, 'ye were,

3. isás, 'they were.'

3. kamovéna.

Sing.	Plur.
1. kamováv, 'I shall be,' etc.	1. kamovása, 'we shall be,' etc.
9 kamonée	2. kamovéna

2. kamovės, 3. kamovėl.

2. isánas, 'thou wast.'

3. isás, 'he was,'

These are all the tenses used: I have never been able to obtain any knowledge of any other forms.

2	
Chináva, 'I cut.'	Choráva, 'I steal.'
	Present.
Sing.	Sing.
hináva, 'I cut,' etc.	choráva, 'I steal,' etc.
him ána	-7 £

1. chináva, 'I cut,' etc. choráva, 'I ste 2. chinésa, chorésa, 3. chinéla, choréla,

Plur.	Plur.
1. chinásas,	chorásas,
2. chinéna,	choréna,
3. chinéna.	choréna.
Imper	fect
Sing.	Sing.
1. chinávas, 'I was cutting,' etc.	chorávas, 'I was stealing,' etc.
2. chinésas,	chorésas,
3. chinélas,	chorélas,
Plur.	Plur.
1. chinásas,	chorásas,
2. chinénas,	chorénas,
3. chinénas.	chorénas.
Aor	iot
Sing.	Sing.
1. chinghióm, 'I cut,' etc.	chorghióm, 'I stole,' etc.
2. chinghián,	chorghián,
3. chinghiás,	chorghiás,
Plur.	Plur.
1. chinghiámas,	chorghiámas,
2. chinghián,	chorghián,
3. chinghiá.	chorghiá.
Futu	are.
Sing.	Sing.
1. kamachináva, 'I shall cut,' etc.	kamachoráva, 'I shall steal,' etc.
2. kamachinésa,	kamachorésa,
3. kamachinéla,	kamachoréla,
Plur.	Plur.
1. kamachinása,	kamachorása,
2. kamachinéna,	kamachoréna;
3. kamachinéna.	kamachorêna.
Impero	ttive.
Sing.	Sing.
2. chin, 'cut thou,'	chor, 'steal thou,'
3. me chinél, 'let him cut,'	me chorél, 'let him steal.'
Plur.	Plur.
2. chinén, 'steal ye,'	chorén, 'cut ye,'
3. me chinén, 'let them steal.'	me chorén, 'let them cut.'
Subjun	ective.
Prese	
Sing.	Sing.
1. te chináva, 'that I may cut,' etc.	te choráva, 'that I may steal,' etc.
2. te chinésa,	te chorésa,
2. te chinéla,	te choréla,
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	1 ,
$Plu\tau$.	Plur.
1. te chinása,	te chorása,
2. te chinéna,	te choréna,
3. te chinéna.	te choréna.
Imper	fact
Sing.	Sing.
1. te chinávas, 'that I might cut,' etc.	te chorávas, 'that I might steal,' etc.
2. te chinésas,	te chorésas,
3. te chinélas,	te chorélas,
Plur.	Plur.
1. te chinásas,	te chorásas,
2. te chinénas,	te chorénas,
3. te chinénas.	te chorénas.
	.:
Partie	choravdó, 'stolen.'
chinavdó, 'cut.'	choravao, stolen.
Verbs ending in vowels:	
Dáva, 'I give.'	Láva, 'I take.'
Indica	ative.
Pres	ent.
Sing.	Sing.
1. dáva, 'I give,' etc.	láva, 'I take,' etc.
2. désa,	lésa,
3. déla,	léla,
Plur.	Plur.
1. dása,	lása,
2. déna,	léna,
3. déna.	léna.
Impe	mfaat
-	Sing.
Sing.	lávas, 'I was taking,' etc.
1. dávas, 'I was giving,' etc.	lésas,
 désas, délas, 	lélas,
Plur.	Plur.
	lásas,
1. dásas, 2. dénas,	lénas,
3. dénas.	lénas.
	rist. Sing.
Sing.	linióm, 'I took,' etc.
1. dinióm, 'I gave,' etc.	linián,
2. dinián, 3. diniás,	liniás,
Plur.	Plur.
	liniámas.
1. diniámas, 2. dinián,	imamas, linián,
2. arman, 3. diniá.	liniä.
v. ut/16th.	o or words

Future.	
Sing.	Sing.
1. kamadáva, 'I shall give,' etc.	kamaláva, 'I shall take,' etc.
2. kamadésa,	kamalésa,
 kamadéla, 	kamaléla,
Plur.	Plur.
1. kamadása,	kamalása,
2. kamadéna,	kamaléna,
3. kamadéna.	kamaléna.

Imperative.	
Sing.	Sing.
2. de, 'give thou,'	le, 'take thou,'
3. me del, 'let him give,'	me lel, 'let him take,'
Plur.	Plur.
2. den, 'give ye,'	len, 'take ye,'
3. me den, 'let them give.'	me len, 'let them take.'

Subjunctive.

Present.

Sing. Sing. te láva, 'that I may take,' etc. 1. te dáva, 'that I may give,' etc.

Imperfect.

Sing. 1. te dávas, 'that I might give,' etc. te lávas, 'that I might take,' etc.

Participle.

dinó, 'given.' liniló, 'taken.'

All the simple verbs are declined in the same manner. is some difference in the agrist, which we shall note in speaking of the formation of the agrist. In verbs compounded with keráva, 'I make,' dáva, 'I give,' the root suffers no alteration in the various inflections: as cham-keráva, 'I chew;' cham-kerghióm, 'I chewed;' chumi-dáva, 'I kiss;' chumi-dinióm, 'I kissed.'

Compound verbs, as mattiováva, 'to become intoxicated,' shukiováva, 'to become dry,' present no difficulty in their inflection, for they differ in no respect from the above paradigms. aorist of aváva, which alone is inflected, is allióm: mattillióm, 'I became intoxicated;' shukillióm, 'I became dry.'

The conjugation of these verbs is very simple, and differs in nowise from the above, except in the pronouns, which form the essential character of this class of verbs.

Verbs of the Middle Voice.

Indicative.

Prese	mt.
Sing.	Sing.
1. chinava man, 'i cut myself,'	továva man, 'I wash myself,' etc.
2. chinésa tut, 'thou cuttest thyself,'	tovésa tut,
3. chinéla pes, 'he cuts himself,'	tovéla pes,
Plur.	Plur.
1. chinása 'men, 'we cut ourselves,'	tovása 'men,
2. chinéna túmen, 'ye cut yourselves,'	tovéna túmen,
3. chinéna pes, 'they cut themselves.'	tovéna pes.
Imper	fect.
Sing.	Sing.
1. chinavas man, 'I was cutting my-	továvas man, 'I was washing my-

1. chinavas man, 'I was cutting myself,' etc. 2. chinésas tut, 3. chinélas pes, Plur. 1. chinásas 'men,

2. chinénas túmen, 3. chinénas pes.

self,' ctc. tovésas tut, tovélas pes, Plur. továsas 'men, tovénas túmen,

tovghióm man, 'I washed myself,'

Aorist.

Sing. 1. chinghióm man, 'I cut myself,' etc.

etc. tovghián tut, tovghiás pes, Plur. tovahiám 'men,

tovénas pes.

Sing.

1. chinghiám 'men,* 2. chinghian tumen,

3. chinghiá pes.

2. chinghián tut,

3. chinghias pes,

Plur.

tovghián túmen, tovghiá pes.

Future.

Sing. Sing. kamatováva man, 'I shall wash 1. kamachinava man, I shall cut myself, etc. myself,' etc. kamatovésa tut, 2. kamachinésa tut, kamatovéla pes, 3. kamachinéla pes, Plur. Plur. kamatovása 'men, kamachinása 'men, kamatovéna túmen, 2. kamachinéna túmen, kamatovéna pes. kamachinéna pes.

Imperative.

tov tut, 'wash thyself.' 2. chin tut, 'cut thyself,' me tovél pes, 'let him wash him-3. me chinél pes, 'let him cut himself. self.

^{*} Properly chinghiamas 'men.

Subjunctive.

Present.

1. te chináva man, 'that I may cut te továva man, 'that I may wash myself,' etc.

Imperfect.

1. te chinavas man, 'that I might te tovavas man, 'that I might cut myself,' etc. wash myself,' etc.

Passive voice.

Indicative.

Present.

Sing. Sing. choraváva man, 'I am stolen,' etc. 1. chinaváva man, 'I am cut,' etc. 2. chinavésa tut, choravésa tut, chinavéla pes, choravéla pes, Plur. Plur. 1. chinavása 'men. choraváva 'men. 2. chinavéna túmen, choravéna túmen, choravéna pes. 3. chinavéna pes.

Imperfect.

Sing.
Sing.
1. chinavávas man, 'I was being choravávas man, 'I was being

cut,' etc.

2. chinavésas tut,

choravésas tut,

choravésas tut,

3. chinavélas pes, choravélas pes,
Plur. Plur.
1. chinavásas 'men, choravásas 'man,

1. chinavasas men, charavenas mun,
2. chinavénas túmen, charavénas túmen,
3. chinavénas pes. charavénas pes.

Aorist.

Sing.

1. chintillióm,* 'I was cut,' etc.
2. chintillián,
3. chintilló,

Sing.

Sing.

chortillióm, 'I was stolen,' etc.
chortillián,
chortilló,

Plur. Plur.
1. chintillámas, chortillámas,
2. chintillián, chortillián,
3. chintilliá. chortilliá.

Future.

1. kamachinaváva man, 'I shall be cut,' etc.
2. kamachinavésa tut,
3. kamachinavéla pes,

kamachoraváva man, 'I shall be stolen,' etc.
kamachoravésa tut,
kamachoravésa tut,
kamachoravéla pes,

* The first person of this tense has a very marked liquid sound of the ll. The 3d, chintelló, is a simple l always.

Plur.

kamachinavása 'men,
 kamachinavéna túmen.

3. kamachinavéna pes.

Plur.

kamachoravása 'men, kamachoravéna túmen,

kamachoravéna pes.

Perfect.

Sing.

Plur

Sing.

1. chinardó isóm, 'I have been cut,' chorardó isóm, 'I have been stoetc. len.' etc.

2. chinavdó isán,

3. chinavdó isí,

Plur

1. chinavdó isám,

chinavdó isán,
 chinavdó isí.

choravdó isám, choravdó isán.

choravdó isán,

choravdó isí.

choravdó isi.

For the imperative I have no certain data: the subjunctive is usually employed in its place.

Subjunctive.

Present.

1. te chinaváva man, 'that I may te choraváva man, 'that I may be cut,' etc.

be stolen,' etc.

Imperfect.

1. te chinavása man, 'that I might te choravása man, 'that I might be cut,' etc.

be stolen,' etc.

The pronunciation of the different persons of the verb used by the Gypsies is very peculiar. They are very prone to clip off the final vowel of the tenses: thus, instead of chináva, they say chináv; for choráva, choráv, etc.; in the 2d and 3d persons, likewise, for chinésa, chinés; chinéla, chinél. So also with the future, which, more than the other tenses, loses its terminal vowel. In fact, very few Gypsies pronounce it in full, and prefer the word as though written kachináv, kachoráv, or kamachináv, kamachoráv. So also with the aorist, which, in the 1st person plural, instead of chorghiámas, chinghiámas, is commonly pronounced chorghiám, chinghiám. Many Gypsies are aware of this, and they tell you that chivél for chivéla, chorèl for choréla, is vulgar. In this manner are clipped all their verbs. In general, the verb retains its final vowel whenever it is at the end of a sentence. In their songs the final vowel is generally pronounced. I make these remarks, that the reader may the better understand many of the colloquial phrases, where I have written the words as ordinarily pronounced. To make a paradigm of a verb in this clipped form would be preposterous, and would exhibit a want of judgment in an author, who should take as a standard the constant fluctuations of colloquial use.

Tenses.—Present.—This invariably ends, in the first person. in va: as siváva, 'I sew;' charáva, 'I graze;' kamáva, 'I wish;' keráva, 'I make.' It corresponds with the present active of the Sanskrit, for we have seen, in speaking of the commutation of the consonants, that the m of the Sanskrit is frequently changed by the Gypsies to v: compare charáva, 'I graze,' with Sr. charâmi; keráva, 'I make,' with Sr. karomi, etc. The 2d person singular, ending in esa, resembles the corresponding person of the Sanskrit, which ends in si: compare charésa, 'thou grazest,' Sr. charasi; kerésa, 'thou makest,' Sr. karoshi. But the 3d persons singular and plural bear no relation to the corresponding Sanskrit forms.

Imperfect.—The Gypsy language has no augment of any kind in any of its verbs. This tense is a mere imitation of the present, to which it adds a final s. It is always pronounced as I have written it, without any clipping of consonants or vowels.

Aorist.—This is of very frequent use, as it expresses action which, among more cultivated nations, belongs to the perfect, pluperfect, and aorist. By this tense is expressed past action, whatever its state or relation to other subjects, or its state of completion with reference to the time expressed. It is formed by adding to the root the syllable ghióm or kióm, whenever the root ends in a consonant: as chináva, aor. chinghióm, 'I cut:' sováva, aor. sovghióm, 'I slept;' penáva, aor. penghióm, 'I said;' bisáva, aor. bisghióm, 'I inhabited;' basháva, aor. bashghióm, 'I cried;' chiváva, aor. chivghióm, 'I threw;' shunáva, aor. shunghióm or shinghióm, 'I heard;' meráva, aor. merghióm, 'I died.'

Verbs whose roots end in vowels form the aorist in lióm or nióm: * as láva, aor. linióm, lióm, or lilióm, 'I took;' dáva, aor. dinióm, 'I gave;' jáva, aor. ghellióm, 'I went;' aváva, aor. allióm,

'I came.'

Verbs whose penultimate is ka form the aorist in a similar manner: as dikáva, aor. diklióm, 'I saw;' chikáva, aor. chiklióm, 'I muddied;' pekáva, aor. peklióm, 'I cooked;' nakáva, aor. nak-

lióm, 'I passed;' makáva, aor. maklióm, 'I painted.'

The passives, and such compound verbs as have avaiva for their compound verbal element, never can have any other aorist than that of avava, viz. allióm. They are always easily distinguished, and form a very prominent part in every Gypsy's conversation: thus kindiló is the 3d pers. sing. aor. of the pass. kinavava man, 'I am bought,' kindillióm, 'I was bought;' liniló, 'it was taken,' from lavava man, 'I am taken,' linilóm, 'I was taken.' These forms, liniló, kindiló, and the like, are used as passive impersonals, and at times, united to the auxiliary verb isóm, they form a distinct tense, or rather, enforce the original meaning of the aorist itself.

^{*} So also, exceptionally, bandáva, aor. bandlióm, 'I tied.'

Future.—The formation of this tense is extremely interesting, for it originates from another verb, kamáva, 'I wish,' Sr. kam, which we have already explained in the Vocabulary. It is prefixed to the Gypsy verb without any intermediate term, and it then forms the future. There are three modes of uniting it with the verb. A Gypsy can say kamajáva, kamjáva, or kajáva, 'I will go; kamakeráva, kamkeráva, or kakeráva, 'I will make.' I have heard these various forms used indifferently, and I have put similar questions to different Gypsies, and the word has been pronounced in these various forms. However, the first form, kamakeráva, is rarely used: they prefer kamkeráva, following their usual habit of clipping the vowels in their conversation. This form of the future is of altogether modern origin. The Modern Greek has also lost the ancient form, and has adopted the auxiliary θέλω, corrupted to θά: as θά δπάγω, 'I will go.' We say now more generally θέλω ὑπάγειν, though the common people still cling to the 3a. Kam is added to itself to express future wish: as kamkamáv, 'I shall wish;' precisely as we now say 3à 3èlw. I do not think that the Gypsies have imitated their neighbors the Greeks in the formation of this tense: they have followed the general analytical spirit, which has so extensively pervaded modern languages. The English makes large use of will, shall, would, should, in the formation of its futures.

Imperative.—This mood exhibits in most cases a striking similarity to the primitive Sanskrit root. Were not the different formations of the Gypsy verb so very clear, it would have been extremely easy to recognize the root in the simple form of the imperative: thus keráva, 'I make,' imp. ker; shunáva, 'I hear,' imp. shun; dikáva, 'I see,' imp. dik; jáva, 'I go,' imp. ja; kusháva, 'I revile,' imp. kush; dáva, 'I give,' imp. de; láva, 'I take,' imp. la or le. In the compound verbs, the imperative is formed solely from the second verb: as vrakeráva, 'I speak,' imp. vrakér; chumidáva, 'I kiss,' imp. chumidé. In the transitive verbs, the formation follows the same rule as in the simple neuter verbs, by rejecting the final syllable ava: as taparáva, 'I make warm,' imp. tapár; murdaráva, 'I murder,' imp. murdár. As for the imperative of the passive, I have always heard the subjunctive used in its stead.

Subjunctive.—This mood represents both the subjunctive and the infinitive, and the usage of it becomes very clear after obtaining a little knowledge of the language. There is no vestige of the Sanskrit infinitive, and the Gypsies, like the Greeks and modern Slavonians, make use of the indicative mood. The Greeks use their particle rà, the ancient lva; and the Slavonians áko and da. This latter was in use among the ancient Slavonic nations, in the optative and imperative moods, precisely as the particle lva of the Greeks was an optative, and in

course of time lost its initial ι , and became the $\iota \alpha$ of our modern Greek, so common now in the language that it is constantly to be heard wherever the modern Greek is spoken. To us, and to the Bulgarians, the subjunctive of the Gypsies is perfectly intelligible and extremely natural, but to others this is not the case. Te is the particle always prefixed, and it is never pronounced ta; but, whenever the verb begins with a vowel, te drops its own. A few examples will fully illustrate the subject: allióm te dikáv, 'I have come to see,' i. c. 'in order that I may see;' pen lénghe t' avén, 'tell them to come;' Gr. ειπὲ ἀντὸνς νὰ ελθωσι, 'that they come.' Again, it is used as a pure optative mood: thus te jivél túke, 'may it live to thee;' Gr. ειπὰ ζήση, or νὰ ζήση: the whole phrase naturally would be εὐχομαι ενα ζήση, 'I pray that it may live;' kamáva te shikliováva, 'I wish to learn.' In this example, the subjunctive is evidently a pure infinitive.

I have heard at times the Gypsies using the infinitive as a

noun, as the modern Greeks do: τὸ νὰ βλέπω, τὸ νὰ ἔβλεπα.

The agrist is sometimes used in the subjunctive with the par-

ticle te; more generally the imperfect is employed.

The subjunctive used as infinitive is not altogether devoid of expression, for it possesses number and person, which the ancient infinitives had not. At times it is extremely clear and definite, far more so than the ancient. This form of the infinitive is known both to the Christian and Moslem Gypsies. These latter, many of whom know not a word of Greek or Bulgarian, could not have borrowed it from the Turkish, which has a proper and regular infinitive, and whose verb in richness and variety is not surpassed by that of any language, ancient or modern. Besides this, the Gypsy verb makes but a poor comparison with the various complex moods and tenses of the Turkish verb. To me it appears probable that the natural bent of the human mind. and its progress towards simplicity of expression, have operated with equal force upon the spirit of the Gypsy as upon that of other modern languages, in which such a striking similarity exists in the various forms of their verbal expression.

Participle.—This is not so clear or so well defined as the other parts of the Gypsy verb. Some participles are pure Sanskrit words. Others are formed from the Gypsy verb itself, in a manner altogether peculiar to this idiom. In the first class belong such terms as Sr. tapta, 'heated,' G. tattó; Sr. supta, 'asleep,' G. suttó or sottó; Sr. pûrta, 'full,' G. perdó. To the second class belong a great number formed from the Gypsy verbs, pronounced in various ways by different Gypsies, and not always familiar to them all. They seem to take their origin, at times, from individuals who have more or less knowledge of their idiom. The same remark applies to the modern Greek, where one may hear, and same all sequences.

The following is a list of those Gypsy participles which have appeared to me to be correct, and which I have frequently heard used: siváva, 'I sew,' part. sivdó, 'sewn;' charáva, 'I eat,' part. charavdó; asáva, 'I laugh,' part. asavdó; dáva, 'I give,' part. dinó; janáva, 'I know,' part. jandó; chináva, 'I cut,' part. chindó or chinavdó; keráva, 'I make,' part. kerdó; piáva, 'I drink,' part. piló; mutráva, 'I void urine,' part. muterdó; nasháva, 'I depart,' part. nashtó; chumidáva, 'I kiss,' part. chumidinó; daráva, 'I fear,' part. daravdó; shunáva, 'I hear,' part. shundó; bisháva, 'I inhabit,' part. bishtó; mundáva, 'I shave,' part. mundavdó; piráva, 'I walk,' part. pirdó; astaráva, 'I hold,' part. astardó; jáva, 'I ery out,' part. bashtó; chiváva, 'I throw,' part. chivdó; pekáva, 'I cook,' part. pekó; továva, 'I wash,' part. tovdó; maráva, 'I strike,' part. maravdó; resáva, 'I finish,' part. resavdó; makáva, 'I paint,' part. makavdó.

From this list the reader can see the great variety of the participles existing in the idiom of the Gypsies. Those formed from simple neuter verbs, as makáva, makavdó, 'painted,' resáva, resavdó, 'finished,' are of pure Gypsy formation; whilst pekó, 'cooked,' is related to Sr. pakva, 'baked, heated, cooked,' etc. I have in the course of the Vocabulary noticed such participles

as are of indisputable Sanskrit origin.

The reader will observe in the paradigms of the active verb that I have noted the participles chinavdó and choravdó. These participles have a passive signification, and as such they are constantly used by the Gypsies. As to the proper active participles, I confess that I know of none; the Gypsies seem to make no use of such forms, but in their stead employ the verb, as the modern Greeks constantly do. The Turks, however, are extremely fond of the participle, and are using it constantly.

This want of active participles is another proof of my assertion, that whilst both Greeks and Turks have given many expressions to the Gypsies, they have not influenced their grammatical system, which has followed those natural principles by the operation of which languages of older date have been moulded into their present form, each one by itself, and independent of the others. This holds good with the Gypsy, and if I have remarked in the course of this memoir that the Gypsy language has been thoroughly permeated by the Greek and Turkish languages, it still appears to me true that it has been formed, as to its fundamental principles, independently of both. So also the Modern Greek, which, though constantly imitating the Turkish, has never had any connection with it in its elementary and grammatical forms, for both languages are essentially distinct from each other.

ALPHABETICAL LIST OF GYPSY WORDS.*

abchin, steel. achai, yet. acharava, to sigh. achdva, to rest; achardó, remained. achdes, Bor., to-day. achinelar, Bor., to eut. akana, now. akata (s. within). akhor, akor, nut; akhorin, akorin, nut-tree. akiarghióm, sighed. akla, akhia, this. alliom (s. come), came (cf. 261). amáksi (s. up), carriage. amil, partner.

ambrol, pear; ambrolin, pear-tree.

amini (Bor., amiñi), anvil. andra, to bring.
andre, within; andral (andryal), from within; ef. behind. angáli, armful. angár, coal; angaréskoro, collier. anglé, forwards; anglutnó, foremost; an-gld, from the front. angüst, angrúst, finger. angustri, angrusti, ring. anro, Bor., egg. apdivés, to-day aquia, Bor., eye. arajay, Bor., priest. arakáv (Bor., aracate), guard; arakáva (Bor., arakatear), to guard. arati, Bor., blood. aratti, night. armán, curse. aruje, Bor., wolf. asán, wheel. asiva, to laugh. asfa, tear. ashardva, to praise. astalo, piastre. astaráva, to hold. astra, Bor., moon. ate, here; attar, hence. avakā, avkā, avakhā, avakliā, this. avatia, here. avara, to come. avdives, to-day. aver, avel, Bor., other. aughin, honey. avkós, first. [eigner. uvri, out; avriál, from out; avruinó, forbaeria (s. sheep), Bor., goat. bignia, bath. bahtalo, unfortunate. bahtzé (s. near), garden. bakö (234), — pakö,

bakró, sheep; bakri, ewe; bakrichó (bakritzo, 245), lamb. bal, hair. balamó, Greck; balamano, adj balo, swine; balicho (balitzo, 245), dimin.

bangava (234), — pangava. bar, stone; baréskoro, stone-cutter. baravalo, rich. baribu, Bor., much. baro, great: baredér (246), comp.; bariováva (s. increase). baró, heavy. bas, Bor., hand. bashava, to ery out. bashe, near; bashal, from near. bashipé, habitation. basnó, bashnó, cock. bato, batu, Bor., father. ben, birth. benáva, to beget. benáva, to say. benk (Bor., bengue), devil; beng (238); bengalò, devilish. seaman, beró (Bor., bero, berdo), ship; beréskoro, bersh (Bor., berji), year. [possess. beshava (s. habitation), to inhabit, sit, bestipen, Bor., habitation; bestelar, Bor., to inhabit. bezéh, pity. bi, without. biáv, marriage. biáva (s. when), to be delivered. bighián (249), he sold. bikinava, biknava (s. buy), to sell. bish, Bor., bis, (s. numbers) tweuty. bishava (234), bisava (261), — beshava. bisto (s. habitation), seated. biv (Bor., bift), snow. [hungry. bokalo, hungry; bokaliováva, to become boláva, to baptize; bolipé, baptism. bópi, bean. bor, belly. bordón (& ship), -vordón. bov, oven; boveskero, baker. bracuñi, Bor., sheep. brakerava (s. Jew), for vrakerava. brishundó (Bor., brijindel), rain. buchardó (s. cover), uneovered. buglo, broad; bugliováva, to spread out. buko, bowel. bunista, dung. burda, Bor., door. burnék, handful. burshin, rain.

bandáva, to shut, to tie; bandloipé, band.

cajuco, Bor., deaf. callicaste, Bor., yesterday. calo, callardo, caloro, Bor., black, combri, Bor., pregnant.

buti, business; butiakoro, day-laborer. buznó, buzní (s. buck), she-goat ; buznoró, búzos, buek.

bus, straw. bus, Bor., much. busni, Bor., sweet.

but, butló, much.

^{*} Added by the Committee of Publication, as an important, and almost indispensable, appendix to Dr. Paspati's article.

cangri, Bor., church. dat, father. dàva, to give; de, imper. cani, Bor., hen. casian, Bor., wood. casto, Bor., hammer. de, mother. debél, Bor., god. chachipé, truth; chachipanó, true. déla, it rains. deniló, fool; deniliováva, to become a fool. chái (s. boy), girl. chaja, Bor., cabbage. chaliováva, to be sated. dernó, Bor., young. deryáv, sea, [godly. desh (s. nnmbers), ten, [godly. devel, god; devlikano, devlikano, cham, kiss. chamkeráva, to chew. dialezava (s. write), to select. diar, dicar, Bor., to see. chaó, boy. char, grass; charáva, to graze. dikáva, dikháva (diháva, diáva), to see. chares (s. wing), possible. dimi, dimish, pantaloon; dimialó, wearing charó, plate; charéskoro, plate-maker. chartáva, to vomit; chartimpé, vomiting. chattáva, to vomit; chattimpé, vomiting. [pantaloons. dinar, Bor., to give. dinelo, Bor., fool. dinó (257), given. disiló, day breaks. chavó, boy-child. chavory (s. boy), Bor., girl. charri, chicken. divės, day; diveséskoro, day's wages. domúk, fist. chergheni (Bor., cherdillas), star. drak, grape, drom (Bor., dron, drun), road. dwa, duga, Bor., pain. chibes, Bor., day. chik, chiká, muď; chikáva (261), to muddy, chikhandi (s. little), in a little while. dudúm, gourd. chiktáva, to sneeze. chimutra, Bor., moon, dui (s. numbers), two. duk, pain; dukáva, to be in pain, to love; dukhaipé, love; dukhaní, mistress. chin, till. chinava (Bor., chinelar), to cut, chinday, Bor., mother. chiniovava, to be tired. duleváva (s. near), to work. dumó, back. duquipen, Bor., pain. dur, afar; durál, from afar. chinkeráva, chingheráva, to pierce. chip, tongue, chirdo, Bor., dwarfish, small. chirikló, bird. eftá (s. numbers), seven; eftavardéri, sevchivava, chitava, to throw (also s. poor). eketané, together. enty. choláva, to steal. enre, Bor., within. choláva (s. cnt), to whittle. erajay, Bor., priest. eresia, Bor., vineyard, chon, moon, month. choráva, to steal; chor, chornó, churnó, thief; chordikanó, stolen. estuché, Bor., sword. chori, Bor., knife. far, time, times, járkia, scythe, choró, poor; choripé, poverty. chorvál, secretly. felé, down. fendo, Bor., good, chova, Bor., hand. chuché, chuchí, breast. chuchó, empty. foros, market place. furí, colt. furó, old. chukél, dog; chuklí, bitch. (to kiss. chukní, tobacco-pipe. chumi (Bor., chupendi), kiss; chumidáva, chungaló, miserable, *gálpea*, gold. gao, Bor., village. garáva, to conceal; garatikanó, mysterious. chungárva, to spit; chungér, spittle. garipé (s. itch), Bor., scab. churi (Bor., chulo), knife. gav, village; gavudnó, villager, gel, Bor., ass. ghamee, Br., ship. churnó (s. steal), thief, chuti, Bor., milk ciria, Bor., passover. cornicha, Bor., basket. ghantáva, to comb. ghelava, to play (in mnsic). crallis, Bor., king. cremen, Bor., worm. ghéles, always. culco, curque, Bor., Sunday. ghelióm, gherghióm (s. go), went; cf. 261. ghenáva, to connt. daha (246), more, gher, itch; gheraló, itchy. dái, mother. gheráva, to make. ghermó, worm. ghilí (ghiló), song ; ghiliáva, ghiliováva, to sing ; ghilimpé, instrument of music. dal, door. dal, Bor., fear. dant (Bor., dani), tooth, dantáva, dantiláva, to bite, ghives, day. ginar, Bor., to count. dar, door. dar, fear; daráva (Bor., darabar, darañar), giv (Bor., gi), grain, wheat. give, Bor., snow. gorbi, Bor., ox. fate-tree. daráv, pomegranate; daravín, pomegrandas, Bulgarian; dasikano, adj. górko, bad.

gosháva, to cleanse.
goshnó, dung (gosnó, 237).
gotí, brain; gotiavér, intelligent.
grafáva, to write.
grast (Bor., gras, gra), horse; grastní
(Bor., grani), mare; grastanó (grái),
adj.; grastéskoro, horseman.
gris, Bor., cold.
gudló, sweet.
guel, Bor., ass; itch.
guillabar, Bor., to sing.
gurúv. gurí, ox; guruvní, gurumní, cow.
gustó (s. hen), Bor., goose.
gúva, pit.
guy, Bor., grain, wheat.

handiováva (232), — khandiováva.
hanló, sword.
hapai, apple.
has, cough; hasáva, to cough.
hindoví (s. from), India.
hirdó (232), — khurdó.
hohaimpé (232), — khohaimpé.

ich (s. come), — yich.
iniya (s. numbers), nine; iniyavardéri,
ishtár (s. numbers), four.
iv, snow.
iv, grain, wheat.

jamutvi, son-in-law.
jandva (s. negation), to know.
jandva, to awake.
jdva, to go; jadló (264), part.
jel (s. itch), small-pox.
jeni, Bor., ass.
jenō: kayék jenō, no one.
jeroro, Bor., ass: jerini, fem.
jil, jir, Bor., cold.
jil, Bor., grain, wheat.
jinar, Bor., to count.
jivava, to live.
jojana, Bor., lie.
joro, Bor., head.
jov, barley.
jov (s. file), six.
jucal, Bor., beautiful.
juco, Bor., dry.
jumeri, Bor., to hear.
jut, Jew; jutanō, Jewish.
juter, juti, Bor., vinegar.
jutia (s. sew), Bor., needle.
juv, louse.

ka, who, which, kade (s. early), every. kaini, kagni, kaina, hen. kalipė, excommunication. kalo, black. kam (Bor., cam, can), sun. kamava (Bor., camelar), to wish. kamlioipė, kamnioipė, perspiration; kamlioipė, kamnioipė, kamniovava, kamliovava, to perspire. kamni, pregnant. kandela, it stinks; kandiniko, stinking. kangli, comb. kangli, comb.

kánna, when. kar, pudendum viríle. karghiri, church. kárin, where. kasht, kash, kast, kas, wood. kasukóv, deaf. katár, from. katár, whence. katáva, to spin. katúna, Gypsy tent. kayék jenó, no one. ke, who, which. kebór, how many. keláva, to play (in music). kelipé (s. because), dance. ker, house. kerál, cheesc. keraló (s. wash), - gheraló. keráva, to make. kerkó, bitter. *kermó*, worm. keti, how much. *kfur*, heel. khan, crepitus ventris. khandí, little. khanínk, khaink, well. [java, neut. khanjovára, khandiovára, to seratch; khankhanló, sword. khar, pit. khasói (s. eat), food. khatava, to dig. kháva, to eat. khelí, fig; khelín, fig-tree. khidva, khlidva, caeare; khendó, khlendó, khohaimpé, lie; khohavnó, khohanó, liar; khohavniováva, to be deceived. khokhavniováva, to be cheated. kholiterava, kholiazava (s. write), to be angry; kholiniakoro, angry. khor, deep. khorakhai, Turk; khorakhanó, Turkish. khristuné, Christmas. khur, heel. khurdó, dwarfish, small. kiláv, plum; kilavín, plum-tree. kilavdő (s. rieh), fat. kiló, stake. kináva, to buy. kirvó, sponsor; kirví, god-mother. kisi, sack. kiustik, girdle. koch, knee. kókkalo, bone. kolin, bosom. kon, who. kopána, trough. kôri (s. shut), neck. korin, root. koró, blind. koró (237), bracelet. kosháva, to cleanse. koshnika, basket. kotór (s. cheese), little. ksillábi, ksillávi, tongs. kukudí, hail. kuri, colt. kurkó, Sunday.

kurló, throat.

kusháva, to revile (also kus, 249).

moskovis, Russian. labelar, Bor., to sing. lachano (s. ashamed), shameful. muclar, Bor., to void urine. mái, mouth; muyál, muiyál, in front. laches, well. mukara, to abandon. lachipé, alm-, lacho, good. mulano, ripe; mulanokeráva, to ripen. mulano (s. dirty), dark. lahtdara, to kick. mulotar (s. die, also 245), after dying. lajara, to be ashamed. muntáva (mundáva, 264), to shave; munlungar, Bor., coal. taráva (253). lar, word, murdarava, to murder. land, to take, get. len, river. murs, brave, male, boy. li, Bor., paper. likhmiri (s. sleep), lamp. murtardva (s. die), to murder. musho, mouse. fvoid urine. muter, prine; mutrava (Bor., mutrar), to bllar, Bor., to take, get. lim, mucus. lindr, sleep; lindralo, sleepy. na, negation. limlo (257), taken. nail, nail. naisváli (naisbali, 234), invalid, br, lil, paper. naisukar (s. negation), not handsome. loko, light. najubar, najar, Bor., to depart; to lose; lolo, red. nak, no-e. lon, -alt; londaráva, to salt. [najipen, loss. Ioria, Bor., sea. nakāra, to pass. loshamordea, to rejoice; loshanó, rejoicnamporemé, invalid; namporéma, siekness. [ing; loshanoipe, joy. naudi, negation. lore, money. Inbui (lobni, 231), harlot. nangó, naked. nao, Bor., name.
napadd (s. behind), afterwards. luey, Bor., wolf. luludí (s. similar), flower. lumi, lumiaka, Bor., harlot. naqua, Bor., nose. nashara, to depart. nusharara, to lose. ma, negation. nasti, negation. macha, Bor., fly. macho, fish; macheskoro, fisherman. nasto, departed, nasukar, ugly. majara, Bor., half. makara, to paint. nete, name. ne, negation. makid, fly. nevo (Bor., nebo, nebel), new. malkoch, a Gypsy tribe. (posite side. mamili, opposite; manuyál, from the opniglardra (niklardva, 234), to go out. nilái, -ummer. many, Bor., meat. manro, mandó, bread: manréskoro, baker. ninelo, Bor., fool. nubli, harlot. manuklo, maniklo, stump (of vine). manish (Bor., manu, manus), man; maaushni (231), woman; manushanó (237), oghi, heart; ogheske, alma. feighty. nara, sea. ohto (s. numbers), eight; ohtovarderi, okaná, now. mardra, to beat. marno, marly, bread. okhia, this. oklistó, mounted. mara, Bor., man, marape, mankind, mas, meat; maséskoro, butcher. oughi, heart. opré, up; oprál, opryál, from above. orioz, Bor., wolf. masek, month. [tween. masha, tonga. orobae, Bor., to weep. ostebel, Bor., god. ostelis, osteli, Bor., down. maskare, between; maskarál, from bemuster, black-mith. fdrunk. audtó, drunk; mattorira, to become mel, dirt; melaló, dirty; melaliorara, to oté (s. negation), for até, become dirty. otiá (s. why), there. meligrana, Bor., pomegranate-tree. merara, to die. pachandra, Bor., passover. pacháca, to ask. mordó (-. die), Bor., sick; see also invalid. pai, water. meripe, death. paillo, Bor., Greek. mermóri, tomb. pak, wing. milia, Bor., milan (s. numbers), thousand. pukiden, to believe. minch, pudendum muliebre. mishikos, mouse. puko, bald. ninemore, tomb. palabear, Bor., to shave. mol, wine. palal, behind: palalutuo, second. mollati, Bor., grape. palred, wind. molo, death. worker in leather. panah (s. numbers), five. morti (Bor., morchas), leather: mortiakoro, pangara, to break. paugherira, to lame; paughioriea, to bemoskire (s. beget), calf. moste (s. shut), from mui. come lame.

[smith.

pani, water: panidara, to water. panko, pango, lame. predal, over (the water). puchára, to ask. *pudino*, musket. papai, apple. papina (s. hen), goose. purano, old (ancient). purò, old ; puripe, old age. purt, bridge. paquilli, Bor., silver. pares, slowly. parnavo, frieud ; parnavoipé, friendship. purim, onion. pusca, Bor., musket. parno, white. paro (234). = baro. paroji, Bor., leaf. pushim, flca. putar, Bor., well. puti, business. parvarára, to nourish. parrardó, fat. pur, carth. pus, pasque, Bor., half. pashe, near. quer, Bor., house. querar, querelar, Bor., to make. pata, clothing. querosto (s. house), Bor., August. patranki, passover. patrin, leaf, feather. pari, Bor., nose. rachi, Bor., night. pechava, to ask. *rāi*, nobleman. pekáva, to cook : pekiló, pekó, cooked. rakilo (s. uight), it is growing dark. peliom, fell; pelotar, after falling. *raklö, rakl*i, child. pelo, testicle. ran, cane. pen (s. brother), sister. ránı, nobleman's wife. pendra (Bor., penar), to say; also for berano, early. rashār, priest: rashanî, prie-t's wife. rat, ratti, night. nara (s. infant). peninda (s. numbers), fifty. perara, to fall. ratt (Bor., rati), blood. res, rez, vineyard. perdra, to fill. perdal, over (the water). resira, to finish, suffice. perdo, full; pertiorara, to become full. réslato, sieve, pergil, pergulikano, foreign. pfur, phur, earth. resis, Bor., cabbage. richiní, bear. fold. phuro, phuru, old; phuriorara, to grow roi, spoon. *pidr*, marriage, rom, romni, romanó, Gypsy. puira, to drink. [va (s. paper). pichardra (s. business), to send; pichardromní (Bor., rom), wife. rowiw, to weep. pichiscas, Bor., cough. *pikalo*, prop. róyi, spoon. rubli, rod. piko, shoulder. pilo, pelo, fallen; pilo (263), drunk. pincharara, to be acquainted with. ruk, trec. rukano, whelp. piudó, pinró, foot. rup, silver; rupovanó, of silver. rutuni, nose. pirara (Bor., pirar), to walk. pirindos, on foot. rur, wolf. piripė, gait. pirango, barefooted. sahriz, tent. .alo, wife's brother: sali, wife's sister. piro, pirno, foot. pishara, to grind. sanno, slim. pishot, bellows. sanno (234), = sunno, pirli, widow. sapp, surpent. piyar, Bor., to drink; pita, drink. sar, similar, like. sar, Bor, garlic. plal (Bor., plan, plane), brother. plata, Bor., clothing. plubi. Bor., silver. saraada (s. number-), forty. suro. Bor., all. po (-, behind), more. surro, súrrore, sarno (251), all. pol. navel. sarró, sárrolo, all. polaliste (s. behind), farther back. wax, Bor., iron. sashii, mother-in-law. pomi, Bor., -ilver. pori, tail. waste. Bor , tall. sarto (s. from and 235), healthy, right. porias, Bor., bowel. vistro, father-in-law, porik, porikín, rai-in. pos, po. Bor., belly. smillo, Bor., colt. sarrore, sarrô (2:5), all. poslak, soil. posom, wool. sener, pack-addle. *cka. Br., tent. por, eye-brow. poyrchárer (-. yesterday). wehn, Br., basket. shule, cabbage, práhos, ashes. shastir, shastra tron : shastoreskoro, blackpeal, brother: pra (234). shasto, healthy, right. prasava, to ridicule.

shastró, father-in-law. shasúi, mother-in-law. shel (s. numbers), hundred. sheló, rope. sheró, head. shevél (s. cold), hundred. shikdva (232), to learn; shikló, learned; shikliovava, to learn. shil (s. nnmbers), hundred. shil, shilalo, cold; shilaliováva, to feel cold. shingh, horn. shoro, head. shoshoi, hare. shov (s. numbers), six. shovardéri (s. numbers), sixty. shuchó, shuzó, clean. shukó, dry, emaciated; shukiováva (252), to hecome dry; shukiaráva, shukiaváva, shunáva, to hear. fto dry. shut, shutkó, vinegar; shutló, shudló, sour. sigó, quick. singe, Bor., horn. singo, Bor., quick. sir, garlic. sivava, to sew. sivri, hammer. so, what. sobelar, sornar, Bor., to sleep somnakái (Bor., sonacai), gold. sóske, why. sostár, because. sottó (s. sleep), asleep. sováva, to sleep. stavros, cross. suaró, cool. sukar, heautiful. sumpacel, Bor., near. sunáva (s. near), — shunáva. sungalo, Bor., horned. sunnó, dream. sut, milk. suttó (263), — sottó. suv (s. sew), needle. ta, te, and.

tabioipé, heat. tahkar, taakar, king; takarní, queen. tái (251), — dái. takhiára, tomorrow. tam-manúsh, blind man. tan, place. taparava (253), to heat. tapava, tap-dáva, to strike. feel warm. tapiáva, to boil, to burn; tapáva (253), to tapillar, Bor., to drink. tapiováva, to burn. taràva, to thirst. tarshúl, cross. tato, Bor., bread. tattipé, heat. [hot. tatto, warm; tattiováva (253), to become tatto (Bor., tati), hath. tav, thread. taviáva, to boil. te, and.

telé, down. teráva (Bor., terelar), to have. terghiováva, tertiováva, to stand. terno, young; ternoro, Bor., new. tiknó, infant, young. továva, toáva, to wash. tovér, tovel, axe: toveréskoro, axe-maker. tránda (s. numbers), thirty. traquias, Bor., grape. trebene, Bor., star. tresca, fever. tri, trin (s. numbers), three. triák, shoc. trijul, Bor., cross. trush, trust, thirst; trushalo, thirsty; trushaliováva, to become thirsty. trushúl, cross. turra, Bor., nail. turshúl (231), cross. tut, milk. *ucharáva*, to cover. uchó, tall; uchedér (246), one taller. ukiaváva, uktiaváva, to step. ukliáva, uklaváva (234), to mount. umdebel, Bor., god. unga, Bor., affirmation. ungla, Bor., nail. uryáva, uryaváva, to dress. uryoipé, dress. vá, affirmation. vanró, vantó, egg. vaptizáva, to haptize. var, time, times. varia, weight. varó, flour. vasiár, mill. vast (vas, 233), hand. vent, winter. verní, file. vesh, ves (s. healthy), forest. vícha, shòot. vikó, shoulder. viv (236), — biv. vlákhia, Wallachian. vordón, carriage. vrakeráva, to speak. vrehtúla, extinguisher. vuchó, táll. vudár, vutár, door. vus, flax. vust, lip. yak, fire. yak, eye. yavér, other. yek (s. numhers), one. yekpásh, half. yernó, young. yich, yesterday; yichavér, day hefore yesyismata, linen.

zámpa, frog. zen, saddle.

zoraló, strong.

ARTICLE VI.

EVIDENCES OF THE

SCYTHIAN AFFINITIES OF THE DRAVIDIAN LANGUAGES,

CONDENSED AND ARRANGED FROM

REV. R. CALDWELL'S COMPARATIVE DRAVIDIAN GRAMMAR.

BY REV. EDWARD WEBB,
MISSIONARY OF THE A. B. C. F. M. IN SOUTHERN INDIA.

Presented to the Society October 16th, 1861.

Extract from Mr. Webb's Letter accompanying the following Article.

Indian Ocean, May 21st, 1861.

... "The remarks you make on the affiliation of the Dravidian languages have led me to examine somewhat more attentively the arguments and proofs adduced by Mr. Caldwell, in his Comparative Grammar of the Dravidian Languages, in confirmation of the Scythian affinities of those idioms. As a result of that investigation, I became better satisfied with their general correctness, and assured that, were they collected and presented in combination, their weight and importance would be acknowledged by those interested in these investigations. The force of Mr. Caldwell's proofs is greatly diminished by their being thinly scattered through his entire work. His first object being, not to prove a Scythian affinity, but to compare the idioms one with another, the notices of an extra-Dravidian relationship occur, as it were, incidentally.

My work, in this paper, has been to collect, combine, and condense the proofs rather lavishly strewn over the treatise. I have generally, though not uniformly, used the words of the author; yet my plan of epitomizing and condensing as much as possible would seldom allow me to quote more than a sentence or two in a place word for word. Only here and there have I introduced a suggestion from other sources, and always either in confirmation or in amplification of the author's thought. When a paragraph of considerable length has been introduced verbatim, it has been included within quotation marks; in other cases it has not been thought necessary to encumber the page with them."...

THE term Dravida has been adopted from the Sanskrit. It properly denotes the Tamil country only. The Brahmans of that country are called "Drâvida Brahmans." Its original meaning, according to Sanskrit lexicons, is 'a man of an outcast tribe, descended from a degraded Kshatriya.' It was applied by the Sanskrit geographers to the aborigines of the extreme south, prior to the introduction among them of Brahmanical civilization. It has recently been employed to designate the cluster of idioms spoken by more than thirty millions of people inhabiting the southern portion of the Indian peninsula. In this little group of dialects, the author of the treatise from which the present abstract is made enumerates nine, which are distinct and well defined. Among these, five have written characters and a cultivated literature: they are the Tamil, Telugu, Canarese, Malayalam, and Tulu. These idioms differ one from another in their written characters, in their vocables and inflectional forms, and in their literary culture. They differ so essentially that a person acquainted with but one is unable to understand either of the They cannot, therefore, be regarded as provincial dialects of a single language, but are to be considered and treated as distinct, though affiliated. They are said to be affiliated because of the large number of roots of primary importance, and the essential and distinctive grammatical characteristics, which they all possess in common. They are on this account regarded as having had a common origin, and as forming a distinct family of tongues.

The term "Scythian" was first employed by Professor Rask to designate that group of tongues which comprises the Finnish, Turkish, Mongolian, Tungusian, and Samoïedic families. This great kingdom of speech, as it has been termed, includes all those languages spoken in Asia or Europe (excepting only the Chinese) which are not embraced in the other two great divisions, the Aryan and Semitic. They have by some been designated the "Tartar," by others the "Finnish," "Ural-Altaic," "Mongolian," and "Turanian." The objection to these terms is that, having been often used to designate one or more species, to the exclusion of the rest, they cannot properly be employed as common designations of the genus. But the term "Scythian," having been used in the classics in a vague, undefined sense, to denote generally the barbarous tribes of unknown origin that inhabited the northern part of Europe and Asia, seems to be appropriate, con-

venient, and available.

Mr. Caldwell claims, for the Dravidian idioms, "not merely a general relationship to the whole Scythian group, but also a position in that group which is independent of its other members, as a distinct family or genus; or, at least, as a distinct sub-genus of tongues." He regards it as most nearly allied to

the Finnish or Ugrian family, with special affinities to the Ostiak. This connection seems to be radical, though remote, and estab-

lished by particulars of primary importance.

Mr. Caldwell has arrived at his conclusions by a comparison of the Dravidian dialects—of which he has a thorough and accurate scientific and practical knowledge—with the grammars and vocabularies of the group in which he classes them. He acknowledges that a great diversity exists among the members of this group; so great, indeed, that, while the Indo-European idioms form only one family or genus, of which the ten families classified under that term are but species, in the Scythian family five or six authenticated genera have been enumerated, each of which includes as many species as are contained in the solitary Indo-European genus, besides twenty or thirty isolated languages, which have up to this time resisted every effort to classify them.

Notwithstanding this diversity, however, the generic characteristics of the Scythian group are very strongly marked, and incapable of being mistaken. The Ugrian and Turkish families, for instance, can be proved by their grammatical structure and vital spirit to be cognate, with as much certainty as the Gothic

and the Sanskrit, or the Zend and the Greek.

I. The history of the Dravidian people is not unfavorable to the hypothesis of the Scythian relationship of their languages.

There is sufficient evidence that the Dravidas lived in the Indian peninsula long prior to the commencement of history, and before the Sanskrit-speaking race had made their way over the snow-capped mountains which separated their ancestral home from the plains of the Ganges, Nerbudda, and Cavery. Drâvidas were doubtless the earliest inhabitants of India; or, at least, the first to enter from the northwest and cross the Indus. There is no evidence from Sanskrit authors—and they are our only authority on this point—that the Dravidians ever had any relations with the primitive Aryans but those of a peaceable and friendly character; and this could not have been true, had they followed that race into India. There is evidence that the Brahmans crossed the Vindhya mountains and entered the Dekhan and Southern India, not as conquerors, but as colonists; as priests and instructors, not as soldiers. The kings of the Pandiyas, Cholas, Calingas, and other Dravidians, appear to have been simply Dravidian chieftains, dignified by the new Brahman priests with Aryan titles. At the time when these events were taking place—some 500 years, perhaps, before the Christiau era the Dravidians were destitute of a written language, and unacquainted with the higher arts of life; but, from an examination of their language, it appears that they had acquired at least the elements of civilization. By a reference to the vocabulary of the early Tamilians, for instance, we gather, by our author's aid, the following items of information:

"They had 'kings,' who dwelt in 'fortified houses,' and ruled over small 'districts of country;' they were without books, but they had 'minstrels' who recited 'songs' at 'festivals;' they were without hereditary priests and idols, and appear to have had no idea of heaven or hell, of the soul or sin; but they acknowledged the existence of God, whom they styled ko or 'king,' a realistic title which is unknown to orthodox Hinduism; they erected to his honor a temple, which they called ko-il, 'God's house.' They were acquainted with all the ordinary 'metals,' with the exception of tin and zinc; with the 'planets' which were ordinarily known to the ancients, excepting Mercury and Saturn. They had numerals up to a 'hundred,' some of them to a 'thousand; but were ignorant of the higher denominations, a lakh and a crore; they had 'medicines,' but no medical science, and no doctors; 'hamlets' and 'towns,' but no cities; 'canoes,' 'boats,' and even 'ships'—i. e. small 'decked' coasting vessels but no foreign commerce; and no word expressive of the geographical idea of island, or continent. They were well acquainted with 'agriculture,' and delighted in 'war.' They understood 'cotton-weaving' and 'dyeing.' They had no acquaintance with painting, sculpture, architecture, astronomy, astrology, philosophy, or grammar. Their only words for the mind were 'diaphragm," the inner parts,' or 'interior;' they had a word for thought,' but no word distinct from this for memory, judgment, conscience, or will; to express the will, they would have been obliged to describe it as 'that which in the inner parts says, I am going to do so and so." But although there existed among them these elements of civilization previous to the arrival of the Brahmans, in intellectual, social, and political standing they were centuries behind this priestly race. They soon, however, rose in the social scale, and formed communities and states in the Dekhan rivalling those of the Aryans in the north.

II. The absence of physiological evidence to the contrary. It is acknowledged that, while in some instances physiology has contributed much to the discovery of the affiliations of races, in the effort to prove the Scythian relationship of the Dravidians it renders no aid; but seems, so far as the study has been pursued, to be utterly at fault. The Dravidians might, on the ground of physical characteristics only, as well be classed with the Caucasians, or would readily admit of being affiliated with the Indo-Europeans; for no essential difference is observed between the heads and features of the Dravidians and those of the Brahmans; and, in fact, the Dravidian type of head will even bear to be directly compared with the European, with more definite marks of suppleness and subtlety in the former, and of straight-forward moral and mental energy in the latter.

It is not safe, however, in the presence of the strong lingual

evidences to be adduced, to draw any conclusion on this ground adverse to their Mongolian or Seythian origin; for a similar change has passed upon the features of the Mohammedans of India, who are all, without doubt, of Tatar-Mongolian extraction: with the exception of a somewhat greater breadth of face and head, and a more olive complexion, they do not differ physiologically from the Hindus, properly so called. A change appears to have passed over them, similar to that which is observed in the Osmanli Turks since they settled in Europe, which has transformed them from Tatars into Europeans.

It may farther be suggested in this connection, that possibly the distinctive Mongolian type, the absence of which is acknowledged in the Dravidians, has been developed in the course of time, since the period when the plains of India were first colon

ized by the progenitors of their race.

III. Evidence derived from religious usages. In proving the origin and relationship of any people, the evidence gathered from their religious usages is always more satisfactory and reliable than that which is founded on physiological comparisons. The religions of the ancient Indo-European nations and those of the old Scythians of Upper Asia present many essential points of difference. In Shamanism—so is termed the superstition which prevails among the Ugrians of Siberia and elsewhere, and which was the religion of the whole Tatar race before Buddhism and Mohammedanism were disseminated among them—there was nothing which resembled the three prominent characteristics of the religion of the Indo-European family: viz., the doctrine of metempsychosis; the worship of the elements of nature, or of a pantheon of heroes and heroines; and the maintenance of a distinct and generally hereditary order of priests.

Shamanism acknowledges the existence of a Supreme Being, but no worship is rendered to him; nor are the objects of worship an inferior order of gods or heroes, but wicked and eruel spirits Any one who pleases may at any time officiate as priest, though ordinarily the father of the family, or the head-man of the hamlet or community, fills that office. Bloody sacrifices are offered with wild dances: the officiating priest or magician meanwhile exciting himself to frenzy, professes to have ascertained the mind of the propitiated demon, and, when the ceremonies are over, communicates it to those who consult him. Such is Shamanism, and the demonolatry practiced in India by the more primitive Dravidian tribes is not only similar to this. but the very same. The Brahmans by whom the Arvan civilization and superstition was grafted on the ruder Dravidian stock labored assiduously to extirpate their religion, and in this they were generally successful; yet is it still possible to discriminate between the doctrines and practices introduced by them and the older religion of the people. Many vestiges of the primitive superstitions still remain, and in some districts they prevail extensively, especially among the Shânârs, and other rude and less Aryanized tribes, inhabiting the provinces in the extreme south of the peninsula. So far as yet appears, every religious usage of the Dravidians which is not of Brahmanical origin is either

identical with Shamanism, or closely allied to it.

- IV. Evidence furnished by the Behistun tablets. Before proceeding to the proofs derived from direct linguistic analysis, we notice an incidental evidence of the Scythian relationship of the Dravidian tongues. The famous inscriptions on the tablets at Behistun, in Beluchistan, which record the political antobiography of Darius Hystaspes, in the old Persian, Babylonian, Scythian, and Medo-Persian languages, have recently been translated. The translation of the Scythic portion enables us to compare the Dravidian idioms with a fully developed copious language of the Scythian family, as spoken in the fifth century B.C. The principal points of resemblance between the Dravidian dialects and the language of the tablets are: 1. The use of the cerebral class of consonants, t, d, n, which are indigenous to the Dravidian languages. 2. The use of the same consonant as a surd when initial and when doubled, and as a sonant when single and medial. 3. The employment in both of similar suffixes for the genitive and the dative cases of nouns, and the accusative of pronouns. 4. The use of a similar word for the numeral 'one' (the only numeral which occurs in letters in the tablets), and the uniform employment in both of the same suffix to express the ordinal numbers. 5. The pronoun of the second person singular is exactly the same in the tablets as in the Dravidian languages. The plural, unfortunately, does not occur. 6. The use of a relative participle. Perhaps this is the most remarkable characteristic of every unaltered dialect of the Scythian family. 7. The analogous etymons in the tablets are: nan, 'to say, corresponding to the Dravidian an or en; uri, 'make known,' Dravidian urai; pori, 'to go,' Dravidian pô; ko, 'a king.' Dravidian $k\hat{o}$. From the discovery of these analogies, Mr. Caldwell concludes that "the Dravidian race, though resident in India from a period long prior to the commencement of history, originated in the central tracts of Asia, the seed-plot of nations (and languages); and that from thence, after parting company with the rest of the Ugro-Turanian horde, and leaving a colony in Beluchistan, they entered India by way of the Indus."
 - V. Evidence from grammatical analysis.
- 1. The laws of sound. The phonetic laws which govern the Dravidian languages contribute to determine the question of their affiliation.

a. Vowels. The only point of resemblance noticed under this head is what is termed "the harmonic sequence of vowels," which appears in all the languages of the Scythian group, and iu the phonetic systems of at least two of the Dravidian lan-The law of harmonic sequence is that a given vowel occurring in one syllable requires a vowel of the same class in the following syllables of the same word, and the vowels of such syllables are altered accordingly. In Telugu, the range of this law, although restricted to the two vowels i and u, appears to be identical with that of the Scythian law; u being changed into i, and i into u, according to the nature of the accompanying vowel. In some cases, the vowels of the appended particles are changed through the attraction of the roots to which they are suffixed; in other instances, the vowel of one of the suffixed particles draws that of the root and that of its other appendages also into harmony with itself: e. g. kalugu, 'to be able,' from which is formed with perfect regularity the agrist first pers. sing. kaluqudu-nu; but the preterit first person is kaligi-ti-ni, where the change of the two final vowels of the root kalugu to kaligi, and of the personal termination nu to ni, is effected by the particle ti, which is the characteristic of the tense; for in the inflexion of Telugu words the most influential particles are those which indicate the time.

One distinctive peculiarity of the Dravidian b. Consonants. consonants is the convertibility of surds and sonants. There are four surd letters which are thus convertible; they are k, t, t, p: k is convertible into its related sonant g; t into d; t into d; and p into b. They are said to be convertible, because they are pronounced as surds at the beginning of words, and whenever they are doubled; and they are always pronounced as sonants when single and mediate. A sonant cannot commence a word, neither is a surd admissible in the middle except when doubled. In Tamil, and partly in Malayalam, one set of consonants serves for both purposes, and the change is made in the pronunciation alone. This peculiarity is not found in any of the Indo-European languages; but the resemblances which are found to exist between it and the laws of sound which prevail in some of the languages of the Scythian family amounts to identity. In the Finnish and Lappish there is a clearly marked distinction between surds and sonants: a sonant never commences a word in either tongue. The same remark has been already made of the Seythic version of the Behistun tablets.

The Tamil differs from the other Dravidian dialects in refusing to combine the surd lingual t with the lingual nasal n, changing it in such a combination into its corresponding sonant d. This is in accordance with a general law of sound in that language, which is, that nasals will not combine with surds, but

with sonants only.

A similar rule respecting the coalescing of nasals with sonants only is found in the Finnish, and may be attributed to that delicacy of ear which both Finns and Tamilians appear to possess.

Much use is made in the Dravidian languages—as also, in truth, in all the languages of India—of a class of letters which have been termed by some "cerebrals," by others, more cor-

rectly, "linguals." They are t, d, n.

Mr. Norris, in his paper on the language of the Scythic tablets, says that Castrén, a Finlander, in his Ostiak grammar, uses distinct characters for the lingual and dental d and t, observing that similar sounds occur in the Lappish and Finnish tongues; and this argument has been employed in favor of the Scythian relationship of the Dravidian languages.

It has been replied, however, that, as this class of letters are used to a far greater extent in the Sanskrit and northern vernaculars of India than in those languages which are acknowledged to be Scythian, the conclusion would rather be that the Dravid-

ian languages were Indo-European in their origin.

Mr. Caldwell attempts to prove that these letters were borrowed from the Dravidian languages by the Sanskrit after the arrival of the Aryan race in India; his reasons are: 1. That these consonants are not found in any of the primitive languages which are related to the Sanskrit. There is no case of these sounds in the Aryan family of tongues west of the Indus. 2. These consonants are essential component elements of a large number of primitive Dravidian roots, and are often necessary for the discrimination of one root from another; whereas, in most cases, their use in the Sanskrit is merely euphonic. Those consonants which the Tamil has borrowed from the Sanskrit have been greatly modified to accord with its own laws of sound. It systematically softens down every harsh sound which it adopts; hence it seems improbable that a series of harsh, ringing sounds, like t, d, n, should have been adopted without change, and used in the expression of a large number of its most essential roots. 4. Though the Telugu has been more exposed to Sanskrit influences than the Tamil, yet larger use is made of these sounds in Tamil than in Telugu.

c. Dialectic interchange of consonants. Only two interchanges common to the Dravidian and Scythian families are specified.

- 1. A change of l to r. A similar interchange between these letters takes place in the languages of Central Asia; l in the Manchu is converted into r in the Mongolian. It should, however, be remarked that, though this change is not infrequent, the evident tendency, especially in Tamil, is the reverse of this, or from r to l.
- 2. The change of the peculiar vocalic lingual r to d and l. This interchange brings to view a very important dialectic law,

which is, that the same consonant which is r in Tamil is generally d in Telugu, and always l in Canarese: e.g. the numeral seven is in Tamil ℓru , in Telugu ℓdu , and in Canarese ℓlu . It thus appears that l and d are as intimately allied as d and r. This is a point of some importance in the question under consideration; for a similar interchange is also characteristic of the Ugrian family of languages: the same word is written with t or d in the Ostiak, and with l in the Magyar and Finnish.

d. Principles of syllabication. The chief peculiarity of the Dravidian system of syllabication is its extreme simplicity, and its dislike of compound or concurrent consonants. Double or treble consonants at the beginning of a word or syllable, like str in strength, are altogether inadmissible. In such positions only one consonant is allowed. If, in the middle of a word of several syllables, one syllable ends with a consonant, and the succeeding one begins with another and different consonant, the concurrent letters must be euphonically assimilated, or they must be separated by a vowel. At the conclusion of a word, double and treble consonants are as inadmissible as at the beginning. Words must end either with a vowel (as they do invariably in Telugu and Canarese), or in one of the nasals or semivowels. Whenever vowels are concurrent in Tamil, Canarese, and Malayalam, the consonants v and y are used to prevent In Telugu the letter n is used in the same way, and for the same purpose. These principles of syllabication differ widely from those of the Indo-European tongues. But they correspond in many respects to the system of the Scythian group. In all the particulars specified above, they accord precisely with the Finnish, the Hungarian, and other languages of the Ugrian family. The same law is observable in the language of the Behistun tablets: e.g. the word Sparta occurs with an initial i thus, Isparta—just as it would be written at the present day in Magyar, or in Tamil.

2. Roots. The manner in which languages deal with their roots is strongly illustrative of their essential spirit and distinctive character. It is chiefly with reference to their differences in this particular that the languages of Europe and Asia admit of being arranged into classes. The class which embraces both the Indo-European and Scythian groups of tongues has been termed by grammarians agglutinative. In this class, grammatical relations are expressed by affixes or suffixes appended to the root or compounded with it. These agglutinated particles have in the Indo-European languages been gradually melted down into inflections, and sometimes even blended with the root. But in the Scythian group every root and particle of every compound word has not only maintained its original position, but

held fast its separate individuality. The two families agree in

original construction, but differ in development.

The Dravidian languages differ from the Sanskrit and Greek, and accord with the languages of the Scythian group, in this particular. The root always stands out in distinct relief, unobscured, unabsorbed, though followed by a large family of auxiliary suffixes. This distinctness and prominence which the root assumes in every word is a chief characteristic of the Dravidian languages, as of all the Scythian group. When roots receive formative or inflectional additions, they sustain no internal change. Both the vowels and consonants, one or more, of which the root is composed, remain unalterable. They sustain no change or modification on the addition of signs of gender, number, and case, or of person, tense, and mood; these are successively agglutinated to the root, not welded into combination with it. All this is as true of the Dravidian roots as of those of the Scythic family generally. Whatever be the length or weight of the additions made to them, they persistently continue unchanged; appearing as fully and as faithfully in the oblique cases as in the nominative; in the preterit and future as in the present or imperative.

To this general rule there are, however, some euphonic, and a few real, exceptions. Among the latter is noticed one, which singularly enough is a Scythian, as well as a Dravidian exception. The long vowels of the roots of the personal pronouns and numerals are shortened. In the Scythian version of the Behistun tablets, while the nominative of the pronoun of the 2d person is $n\hat{\imath}$, 'thou,' as in the Dravidian languages, the possessive case is $n\tilde{\imath}$, 'thy,' and the accusative $n\tilde{\imath}n$, 'thee.' Corresponding in quantity are the Dravidian oblique cases: e.g. Telugu and Tulu have $n\tilde{\imath}nu$, 'thee;' High Tamil $n\tilde{\imath}n$, 'thy,' and

ninai, 'thee.'

It may just be remarked in this connection, that the Dravidian languages differ from those of the Aryan family, and accord with those of the Scythian family, in generally using the crude root of the verb, without any addition, as the imperative singular.

3. Nouns.—a. Gender. The laws of gender in the Dravidian languages are sui generis, yet accord more closely with those of the Scythian than with those of the Indo-European family. In all the Aryan languages, not only is gender attributed to words as well as objects, but words implying inanimate objects, and abstract ideas, are said to possess sexual distinctions, and to be male or female, according to their form, and are consequently fitted, not with neuter, but with masculine and feminine case-terminations, and with pronouns of corresponding genders. This remark applies also to the Semitic languages. On the other hand, in the Manchu, Mongolian, Turkish, and Finnish

family of tongues, no nouns whatever, not even those which denote human beings, are regarded as in themselves masculine or feminine, but they are considered to be destitute of gender. They have inherently no mark of gender, nor is that idea involved in any of the case-terminations; but, wherever it is necessary to distinguish the sex, some word equivalent to "male" or

"female," "he" or "she," is prefixed.

In like manner all primitive Dravidian nouns are destitute of gender, and sex is distinguished by suffixed fragments of pronouns, so that every word in which the idea of gender is expressed is treated as a divisible or compound word, and in the poetical dialect the ordinary suffixes of gender or rationality are generally discarded, and all nouns, as far as possible, are treated as abstract neuters. Even Devu (Sanskrit deva, masc.), a crude noun, destitute of gender, is regarded as more classical than the corresponding masculine noun used for God in modern and colloquial Tamil.

But in many important respects the Dravidian laws of gender differ from those of the other Scythian tongues: e.g. the distinction between rational and irrational is regarded as more momentous and essential than that between male and female, and, in the plural, this is the only distinction provided for. Not only all nouns, but even pronouns and verbs, are epicene in the

plural.

The Telugu language, which is said to be spoken by fourteen millions of the Hindus, has actually no feminine singular even, but uses in the place of it the singular of the neuter: this rule applies to goddesses and queens as well as to ordinary women; but in the plural they are honored, as in the other dialects, with the rational suffixes which are applied to men, gods, and de-Some of the rude aborigines on the Nilagiri hills employ in such cases the masculine instead of the neuter, reminding us of the use in Old Hebrew of the pronoun hû to signify both 'he' and 'she.'

This law of gender peculiar to the Dravidian tongues is the result of grammatical culture, and is decidedly more philosophical, though not so imaginative, as that of the Indo-European

and Semitic tongues.

b. Number. In the primitive Indo-European tongues the plural is carefully distinguished from the singular. Number is always clearly denoted by inflectional terminations. Scythian languages, number is generally left indefinite, so that the connection alone determines whether a noun is singular or plural. In this respect, the Dravidian languages differ from the Indo-European, and accord remarkably with those of the Scythian stock. Poets and peasants, the most faithful guardians of antique forms of speech in all countries, very rarely pluralize

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the neuter of Dravidian words. This rule is adhered to with especial strictness by the Tamil, which in this, as in many other particulars, exhibits most faithfully the primitive condition of the Dravidian languages. Even when a neuter noun is pluralized, the verb is very rarely pluralized to correspond. In fact, the Tamil verb contains no third person plural for the future or aorist: in this particular the verb is more decidedly Scythian than the noun.

In this connection must be noticed another point of difference between the Indo-European and Scythian languages. In the former, the signs of plurality and case are so blended that each inflection in the plural includes the two-fold idea of number and The plural has a different set of case-terminations from the singular, by the use of which the complex idea of plurality and case-relation is indicated. There is no inflection for any case as such, irrespective of number, nor for number as such, irrespective of case. Moreover, there is no apparent connection between the case-terminations of the singular and those which are used in and constitute the plural. But, in the Scythian family, plurality is expressed by a sign of plurality common to all the cases, which is affixed directly to the singular, or crude form of the noun. To this sign of plurality are added the case-terminations, which are fixed and unalterable, expressing the idea of case, and nothing more, and are the same in the plural as in the singular.

In the Dravidian languages, a singular simplicity and rigidity of structure characterizes the particles of plurality, as will appear from a comparison of the declensions of the Hungarian noun ház, 'house,' and the Tamil noun manai, having the same meaning.

Declension of Hungarian noun HAZ.

Singular.		Plural.
Nom.	hâz,	$h\hat{a}z$ - ak .
Gen.	hâz-nak,	hâz-a k-n ak.
Dat.	hàz-nak,	hâz-ak-nak.
Acc.	hāz-at,	hâz-ak-at.

Declension of Tamil noun MANAI.

Singular.		Plural.
Nom.	manai,	manai-gaļ.
Acc.	manai-(y)-ai,	manai-gal-ai.
Inst.	manai-(y)-ál,	manai-gal-âl.
Conj.	manai-(y)-ôḍu,	manai-gaļ-ôḍu.
Dat.	manai-kku,	manai-gal-(u)-kku.
Abl.	manai-(y)-illirundu,	manai-gal-illirundu.
Gen.	manai-(y)-in,	manai-gaļ-in.
Loc.	manai-(y)-idattil,	manai-gal-idattil.
Voc.	manai-(y)-é,	manai-gal-ê.

The Dravidian languages possess, in addition to a neuter pluralizing particle, which was originally restricted exclusively to neuter nouns, a sign of the plural which is appropriated only to rational or personal nouns, and which is common to both masculine and feminine. In the nouns, pronouns, and verbs of these languages, the primitive form of this epicene pluralizing particle is ar. In Tamil and Malayalam, there is still another particle of plurality applicable to rational beings, viz. mâr or mar. This seems to be related to some of the pluralizing particles of certain Scythian languages; in Turkish it is lar or ler, which is inserted, as in the Dravidian languages, between the crude noun and each of the case-terminations. Mongolian nouns which end with a vowel are pluralized by the addition of nar or ner. How remarkable is the resemblance to the Dravidian mar, both in the final ar and in the prefixed nasal! The Dravidian mar may be allied to, and perhaps the original of, the high Asian nar. In the Scythian tongues n is often elided, and the same peculiarity characterizes the Dravidian family; for mar has been softened into ar; and if both forms continued to be occasionally used, mar, the older of the two, would naturally and regularly acquire a honorific signification—and this we find to be the fact.

This particle is sometimes isolated from the noun which it pluralizes in a peculiarly Scythian manner: e. g. täÿ-tagappan-mâr, 'mothers and fathers,' in which both 'mother' and 'father' are in the singular, and mâr is appended separately to qualify both. In modern Tamil, mâr is appended to nouns signifying priests, kings, and parents, as a plural of honor, like the Hungarian mek.

The plural suffix of neuter nouns was originally and essentially gal or kal; it is indeed very generally, though perhaps improperly, used at the present day as a plural suffix of rational nouns and pronouns. In modern Canarese we have galu; farther north its shape is more considerably modified. In Telugu it is lu, l in Telugu corresponding to the lingual l of other dialects; lu therefore accords with the final syllable of the Canarese galu, the only difference being the omission of the initial ga. Thus, in colloquial Tamil, avargal, 'they,' is softened into aval.

The letters k and g are dropped in a similar way in many of the Scythian languages. It is not uncommon to find one portion of a much used suffix in one language or dialect of a family, and another portion of it in another member of the same family; accordingly, in Gond, a Dravidian hill-dialect, we find that the plural neuter is formed by the addition of k alone: e. g. $n\hat{a}\ddot{v}$, 'dog;' $n\hat{a}\ddot{v}$ -k, 'dogs;' in Tamil it is $n\hat{a}\ddot{y}$ -gal, 'dogs.' The letter k is also sometimes found interchangeable with t: e. g. in Gond amat, 'we,' and imat, 'you.' Compare now with these Dravid-

ian forms the Magyar and Lappish plural in k or ak, also the t by which k is displaced in almost all the other dialects of the Finnish family, and the reappearance of l and t in the Ostiak plural suffix tl. Observe also the plural k in the Turkish $\hat{u}dum$, 'I was;' $\hat{u}duk$, 'we were.' On the other hand, t is the sign of the plural in Mongolian, which in the Kalmuk is softened into d.

c. Case. It has been already remarked that, in both the Indo-European and Scythian families, case-relations of nouns are expressed by means of post-positions, or auxiliary words; the difference between them being that, in the former, these have been in process of time converted into technical case-signs or inflectional terminations, which have been so welded into combination with the roots as to render it in many cases impossible to distinguish between the root and its suffix; whereas, in the Scythian family, these post-positions, or auxiliary words, appended to express the reciprocal relations of the noun to the other parts of the sentence, have rigidly held fast their individ-

ual and separate existence.

Another particular in which the case formations of the two families of language differ has been alluded to. The languages of the Indo-European family appear to have been used from the beginning on the principle of expressing the case-relations of the singular by one set of forms, and those of the plural by another. On the other hand, in all the languages of the Scythian group, the same case signs are employed, without alteration, both in the singular and in the plural. In the singular they are appended directly to the nominative, which is identical with the base; in the plural they are appended, not to the nominative or base, but to the particle of pluralization which is suffixed to the base. The only exception of importance is that, in some of the Scythian tongues, especially in the languages of the Finnish family, the included vowel of the case sign differs in the two numbers, being generally a in the singular, and e in the plural. In both these particulars the Dravidian languages differ from those of the Indo-European family, and are in perfect accordance with the Scythian tongues. As in the Scythian languages generally, so in the Dravidian, there is but one declension. properly so called.

Note, that the use of v and y to prevent hiatus between concurrent vowels (before alluded to) extends in its application to the concurrence of the case-signs and roots, when the former begin and the latter end with a vowel: e. g. $nadu \cdot v \cdot il$, 'in the middle,' $vari \cdot y \cdot il$, 'in the way.' Compare this with the use of v for a similar purpose in Magyar: e. g. $l\hat{o}$, 'a horse,' and at, the sign of the objective case when united, appear not as $l\hat{o} \cdot at$, but

as lô-v-at, precisely as would be the case in Tamil.

Accusative case-signs. The only sign in Tamil is ai; in Mala-

vâlam it is \hat{e} ; the Canarese accusative is am and an, then annuand anna, and nu; in Telugu it is nu or ni; when preceded by i it is ni, when by any other vowel it is nu: e.g. inti-ni, 'domum;' bidda-nu, 'puerum.' In the Finnish tongues, the greater number of singular accusatives are formed by suffixing en or an; in the Wotiak, by adding a to the root: e.g. ton, 'thou,' ton-a, 'thee;' the Turkish accusative is \hat{i} or $y\hat{i}$; the Mongolian, \hat{i} after a consonant. The Turkish î is doubtless a softened form of the oriental accusative case-sign nî, from which it has been derived. So in the Kalmuk pronouns we find bida, 'we,' bida-nî, 'us;' na-mai, 'me,' and dzi-mai, 'thee.' Ascending farther and farther towards the source of the Scythian tongues, we find in the tablets at Behistun that the accusative singular of the pronoun nî is nin, 'thee;' compare this with the Tulu (a Dravidian dialect), where it is nin-u, 'thee,' and observe how close is the resemblance.

The consonants m and n are extensively used as accusative case-signs in the Indo-European languages also. In this instance we must conclude that both languages have retained a relic of their original oneness. There are reasons, however, for connecting the Dravidian case-sign with the Scythian rather

than with the Indo-European family.

The Instrumental, or 3d case. The sign of this case in Tamil and Malayâlam is âl, probably from kâl, 'a channel,' which has lost its initial k; as the plural sign kal in Tamil has become lu, by corruption from kal-u. Another mode of forming this case in the Dravidian languages is by means of the preterit verbal participle of the verb "to take," suffixed to the accusative of any noun: e. g. vâl-ai(k)kondu, 'having taken a knife.' This has arisen from the repugnance of the Dravidian (as of all Scythian, and in contradistinction to the Indo-European) languages to continue to make use of any inflectional form after it has ceased to express its original meaning, and has become a mere technical sign. In such cases, a word or phrase is often adopted, which has a distinct meaning of its own. The frequent use of kondu in the place of âl or kâl is an illustration of this practice.

The Conjunctive case. This is sometimes called in Dravidian grammar "the social ablative." The fundamental sign of this case in all the Dravidian languages is udan, meaning 'with,' or 'together with'—in the conjunctive, and not the instrumental, sense of the word 'with.' The Sanskrit and the other languages of that family are destitute of this case, while most of the Scythian tongues have a regularly formed conjunctive case, like the Dravidian languages. Den, the conjunctive case-sign of the

Kalmuk, may be compared with the Tamil udan.

The Dative. In all the dialects of the Dravidian family, in the rudest as well as in the most polished, there is but one suffix

of the dative, which takes the forms ku, ki, ka, or ge: the guttural k, or its sonant q, is the essential part of this suffix. In the primitive Indo-European tongues we discover no trace of any such dative suffix or case-sign; but on turning to the Scythian family, interesting analogies meet us at every step. In Oriental Turkish, the forms of this suffix are ke, ka, ge, ga, etc. In Osmanli Turkish it is eh or yeh; the initial k or g having been softened into y, and then discarded altogether. A softening of the guttural in this case-sign, precisely similar, is observed in the Malayalam. In the Finnish family, the Turko-Dravidian dative reappears. In the Irtish and Surgutish dialects of the Ostiak it is qa. We learn from the Scythian tablets that a dative suffix almost identical with the Dravidian, Turkish, and Ostiak was used by the oldest Scythian dialects of Central Asia of which any remains are extant. The dative case-sign there used is ikki or ikka. In composition, the Tamil ku becomes akku or ukku, and in Malayalam, kka and ikka. Compare the cuneiform Scythian nî-ikka or nî-ikki, 'to thee,' with the Malayâlam nani-kka, and the Telugu nî-ku.

Ablative of motion. No Scythian analogies are observed in

this case.

The Genitive, or 6th case. This case is formed in various ways, and by means of various suffixes, in the Dravidian languages. The personal pronouns in Tamil form their genitive by shortening the included vowel of the root: e. g. $n\hat{i}$ or $n\hat{i}n$, 'thou;' $n\tilde{i}n$, 'thy;' $n\hat{a}m$, 'we;' $n\tilde{a}m$, 'our.' In the Behistun tablets we find $n\hat{i}$, 'thou,' and $n\tilde{i}$, the enclitic possessive. Of all genitive casesigns, in is that which is most frequently used for both numbers and all genders.

In Sanskrit, and in other members of the Aryan family, distinct traces are recognized of the use of a genitival particle, in which the consonant n is the most essential element. But in the languages of the Scythian stock, we find a large number of still more important analogies with the Dravidian genitival suffixes in and ni: e. g. Manchu and Mongolian mi-ni, 'of me:' Mongolian chi-ni, and Manchu si-ni, 'of thee.' In Finnish, the suffix universally employed is n: as kudo, 'house,' kudon, 'of a house.' In Mordwin, the genitive plural suffix is nen. The Lappish genitive singular takes n or en. In the Tatar or High Asian families, as in the Behistun tablets, the prevailing form of the genitive is nen, which systematically alternates with the simple suffix un or in. In Oriental Turkish, it is ning, nin, nîng, or nîn. In Ottoman Turkish, it is un in the plural, and un or nun in the singular. In Mongolian, it is \hat{u} after n, $\hat{u}n$ after any other consonant, and yin after a vowel: compare the Mongolian $k\hat{o}l\cdot\hat{u}n$. 'of a foot,' with the Tamil kâl-in, 'of a foot.' The Kalmuk and Tibetan genitives are formed by suffixing i or yin. Other analogies are traced, but these may suffice.

Another essential suffix of the genitive in the Dravidian languages is a. Though little used in the Tamil, yet, when all the Dravidian idioms are taken into consideration, it is perhaps more largely employed than any other suffix of the genitive; on which account it is placed first in the list of case-signs by Tamil grammarians—a proof of the accuracy of the Tamil classification. There is no direct Scythian analogy for this suffix. Its affinities appear to be rather with the Indo-European. In the later Teutonic dialects, however, a genitive case-sign in a becomes exceedingly common, and is found in the plural as well as the singular: e. g., in the Frisian and Icelandic. This resemblance between the possessives of some of the Teutonic vernaculars and that of the Dravidian languages is deserving of notice.

To the signs of the locative and vocative no analogies are traced.

It has only to be farther noted under this particular that, as in the Hungarian and some other Scythian tongues, so in the Dravidian, two or more case-signs are occasionally compounded or united in one word.

4. Numerals. Not the smallest trace of resemblance has been discovered between the Dravidian numerals and those of any Indo-European language, with the single exception of the Telugu oka, 'one,' as compared with the Sanskrit eka-in which instance the Sanskrit itself has in all probability inherited a Scythian numeral, as the numeral one in several other members of the Aryan family is evidently derived from a different base. When therefore we find, with this abnormal exception, no resemblance in the Dravidian numerals to those of the Indo-European tongues, we are led to the conclusion that the Dravidian languages must be derived from some other source. On the other hand, a comparison of the Dravidian numerals with those of the Scythian tongues appears to establish the fact of the existence of Scythian, and especially of Ugrian and Finnish analogies. It cannot properly be urged as an objection that in respect to most of the numerals no such resemblance is observed; for the same objection could be urged against the classification of many of those languages which are claimed and allowed to be of Scythian affinities. Thus it cannot be doubted that the Magyar and Finnish are sister tongues, essentially and very closely allied, yet with respect to four numerals—viz. 7, 8, 9, and 10-no distinct trace of resemblance between them survives. and it is only in the case of the numerals 1, 2, and 4 that it can be said, without hesitation, that the same root was used in both languages.

The numeral one. Two forms of the cardinal numeral 'one' are found in the Dravidian languages, which appear, however, to be remotely allied: viz. oru and oka. The basis of the first

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and most commonly used form is or, which is its adjectival form, and the representative of the crude root. If the k in the second form, which is used only in the Telugu, be radical, as is most probable, then the crude adjectival form from which it was derived may have been kor; if so, we may at once conclude that kor was the original form of the Tamil-Canarese or, for there are several instances of the disappearance of an initial k, as we have before shown, while it could not have been prefixed to or if it had not originally stood before it. If this supposition be allowed, it is easy to see how kor and oka are allied, by the corruption of both from a common root. Kor, or, and oka would naturally and regularly be derived from the root okor, which corresponds to the Samoïede okur. This supposition receives a beautiful illustration and confirmation from the form which the numeral assumes in the Behistun tablets; which, be it remembered, are the oldest extant specimens of the language of the ancient Scythians. The word there employed for 'one' is kir, and the numeral adjective derived from it is irra or ra. Here, then, we have a word for 'one' discovered in the very fountain of ancient Scythian forms, containing both k and r; and a derived numeral adjective, from which the k has been softened off.* It is interesting also to notice, in passing, that the numeral adjective ra of the tables is identical with ra, the same numeral adjective of the Ku, a Dravidian dialect. The Caucasian numerals for 'one' exhibit a close resemblance to the Dravidian: they are ar, arti, erthi. As in the Dravidian or, 'one,' and ir, 'two,' so in these dialects, r forms an essential part of both.

The numeral four. It is evident from a comparison of all the Dravidian dialects that the primitive form of this numeral was nâl or nal. In the entire family of the Indo-European languages, there is not a word signifying 'four' which in the smallest degree resembles the Dravidian nâl. But, in this instance, Finnish and Ugrian affinities are more than usually distinct; the resemblance amounts to identity, and cannot have been accidental. In Cheremiss 'four' is nil; in the Mordwin, nile and nilen; in Vogul, nila; in Ostiak, nül, nel, njedla, nieda; in Finnish proper, nelja; in Lappish, nielj, nelje, nellâ; in Magyar, nêgy. The root of all these numerals is evidently nil or nel, the analogy of which to the Dravidian nâl or nal is very remarkable. In the Telugu, the word for fourteen is pad-nâji, where the l of nâl

^{*} The direct derivation of the Telugu oka, 'one,' from the Sanskrit eka, seems improbable, since that language has borrowed, and occasionally uses, the Sanskrit numeral eka, in addition to its own oka, and never confounds the two. Telugu grammarians regard them as altogether independent one of another. Moreover, words closely analogous to oka are used in all the Finnish languages, which cannot be supposed to have borrowed them from the Sanskrit. Thus the numeral 'one' is in Wotiak og; in Vogul, ak; in Magyar, egy; in Lappish, akt; in Finnish, uxi (yk-si); in Samoïede, okur.

is softened down, as in the Ostiak, Lappish, and others just quoted. The resemblance between the Dravidian 'one' and 'four,' and the corresponding numerals in the Ugrian languages is so complete, that we may justly regard them as identical.

It is a characteristic of the Scythian languages that they use for 'eight' and 'nine' compounds which signify 'ten minus two' and 'ten minus one.' In some instances an uncompounded word is used for 'eight,' but 'nine' is always compounded as we have stated. The Dravidian word for 'nine' is formed in this way; and the same seems to be a rational explanation of the Telugu word enimidi, 'eight.'

5. Pronouns. Much light is thrown by the pronouns on the relationships of languages. In some instances, the pronouns, and especially that of the first person, constitute the only appre-

ciable point of contact.

a. Pronoun of the first person singular. The form of this pronoun in colloquial Tamil is $n\hat{a}n$; in Malayâlam, $ny\hat{a}n$; in Canarese, $n\hat{a}nu$; in Tulu, $y\hat{a}n$; in Telugu, $n\hat{e}nu$. From a comparison of the different forms in use, we are led to regard the Tamil $n\hat{a}n$ as the best existing representative of the old Dravidian nominative of this pronoun, and $n\hat{a}$ as the primitive unmodified root. The final n seems to be merely a sign of number, or perhaps only a euphonic formative.

There seems to be reason to conclude that the Dravidian na and the old Indo-European ma are allied, and, if so, that the

former has been derived from the latter.

An examination of this pronoun in the Scythian group of tongues brings to light some very interesting analogies between the forms which it assumes in them and that which it takes in the Dravidian languages. The nominative, as well as the oblique cases, of the first personal pronoun in all existing languages of the Scythian group is derived from a base in ma, and not unfrequently comes into perfect accordance with the Dravidian, by changing into na. This ma is in most existing Scythian vernaculars nasalized into man. In Oriental Turkish, this pronoun takes the form of men; in Turkoman, man; in Khivan, mam: in Ottoman Turkish, ben (m degraded to b); in Finnish proper, mina; in Lappish, mon; in Ostiak, ma, plural men; in the Samoiede dialects, man, mani; in Mongolian and Manchu it is bi. evidently corrupted from mi, like the Ottoman ben from men: the Magyar has ên in the singular, and mi in the plural. It thus appears that the true representative of this pronoun in the Scythian tongues is ma, and that as ma has been generally euphonised into man in the western families of that group, so it evinces in the eastern stems a tendency to change into na.

The initial and radical m is occasionally converted into n in the Indo-European languages, and a similar change from m to n

is apparent in the Scythian tongues, so that this nasal has become distinctive of the first personal pronoun in those languages,

just as it has in the Dravidian family.

It would thus appear that the various forms of the pronoun of the first person singular, ma, na, and the High Asian nga, are identical, and that this word was the common property of mankind, prior to the separation of the Indo-European tribes from

the rest of the Japhetic family.

b. Pronoun of the second person singular. In Tamil, nî is invariably used as the isolated nominative, though nîn, corresponding by rule to nan (the pronoun of the first person), was, without doubt, the primitive form; for the final n, though totally lost in the nominative, is invariably retained in the oblique cases. In the personal termination of the verb, this pronoun is represented by the suffixes ây, ai, or î, from each of which both the initial and final n have disappeared; of these two n's, the former appears to be essential, and the latter euphonic. There is some doubt as to the included vowel, but authority preponderates in favor of i. As in Tamil, so in Canarese and Malayalam, nî is regarded as the crude base of this pronoun, although in Canarese the nominative is nîn, and in Malayâlam the oblique cases are nan and nin. The Telugu nominative is nî-vu, the vu being only euphonic. In the personal terminations of the verb, the Telugu rejects every portion of the pronominal root, and employs only the euphonic suffix vu or vi.

As the result of this comparison of the Dravidian dialects, we conclude that the primitive form of this pronoun was nî, but the only essential part of the pronoun appears to be the initial n; just as, in the Indo-European languages, t is the essential part of the corresponding pronoun; with a preference for the

vowel i by the former, and u by the latter.

The relationship of this pronoun, unlike that of the pronoun of the first person, which has both Japhetic and Scythian affini-

ties, is distinctly and specifically Scythian.

Throughout the Scythian as well as the Indo-European group, the most prevalent form of this pronoun in the singular is that which comes from the consonant t, with a preference for its phonetic equivalent s; which, however, is generally euphonized by the addition of a final nasal, usually the consonant n, as in the pronoun of the first person: e. g., tu, σt , Turkish siu; Samoiede tan; Lappish don. The only other consonant form used in any family of either of these groups is that which is formed from the consonant n, of which the cuneiform Scythian and the Dravidian $n\hat{\imath}$ is the best representative. No connexion can be traced between these roots, nor is there a change in any instance from one form into the other. The Magyar has te, the Armenian tu, the Mongolian $ch\hat{\imath}$ or $dz\hat{\imath}$ (notice here the progress of t towards

the softer form s); the Finnish dialects se, sina, sia, sia, sie. It is evident that there is no resemblance whatever between any of these pronouns and the Dravidian nî, which is doubtless an ultimate underived pronominal root. And it thus appears that there are two Japhetic bases of the pronoun of the second person, as well as two of the first.

There are traces more or less distinct, in various languages of the Scythian group, of the existence of a pronoun of the second person identical with, or evidently allied to, the Dravidian $n\hat{\imath}$, while there are none in any members of the Aryan family. The most ancient, remarkable, and decisive is the pronoun used in the Scythian tablets at Behistun; this is $n\hat{\imath}$, precisely as in the Dravidian idioms. In the Ugro-Ostiak, 'thou' is nen, 'you' is nen; in other Ostiak dialects we find num and nyn; in Vogul,

nei, ny, nan; plural, nen and non.

This form of the pronoun of the second person appears in the possessive compounds, and in the personal verbal terminations of some languages: thus, in the Ostiak, ime-n, 'thy wife.' So, in another of the Finnish dialects, we find kery-n, 'thou hast done;' so in Turkish, bâbâ-n, 'thy father;' bâbâ-nûz, 'your father;' and îdu-n, 'thou wast.' More remarkable than all these is the Chinese ni, which is identical with the Dravidian-Behistun-Scythian pronoun. Compare also the ni of the Horpa, a dialect of the Tibetan, and also the ninna of the Australian dialects.

It is very evident that the affinities of the Dravidian $n\hat{\imath}$ are wholly Scythian, and this contributes largely to the establishment of the Scythian relationship of the Dravidian family.

c. The plurals of these pronouns. These are generally formed in the Dravidian dialects by the addition of the pluralizing particle m: e. g., in Tamil, nam, 'we,' and nir, 'you,' instead of the more regular nim; and, in the colloquial dialect, namg-gal, 'we,' and ning-gal, 'you,' for nam-gal and nim-gal; a double plural has thus crept into use, similar to that which has obtained in the Turkish, where ben, 'I,' is regularly pluralized into biz, 'we;' sen, 'thou,' into siz, 'you;' which are then pluralized again by the addition of ler, the ordinary suffix of plurality; thus biz-ler, 'we,' siz-ler, 'you.'

In several of the languages of the Scythian family we discover traces of the use of m as a sign of the plural; we can, however, scarcely expect to find there a sign of plurality perfectly corresponding to that of the Dravidian, for in those languages the personal pronouns are generally pluralized by a change of the final vowel, and not by any change or addition of consonants.

In all the Dravidian dialects, excepting the Canarese, there are in constant use two plurals of the pronouns of the first person, of which one denotes not only the party of the speaker, but also the party addressed, and may be called the "plural in-

clusive;" the other excludes the party addressed, and includes only the party of the speaker, and may be called the "plural exclusive." This idiom is a distinctly Scythian one; there is no trace of it in the Sanskrit, or in any of the languages of the Aryan family; but it is found everywhere in Central Asia.

d. Demonstrative pronouns. The Dravidian languages, like most if not all other primitive uncompounded tongues, are destitute of pronouns of the third person, properly so called, and use instead demonstrative bases signifying 'this' or 'that,' with the addition of suffixes of gender and number. Four such bases are recognized in one or other of the Dravidian dialects, each of which is a pure vowel: viz. a, the remote, i, the proximate, and u, the medial demonstrative; also \hat{e} , which is used as a demonstrative only in the Ku dialect. The first two only are in common use. The suffixes which are annexed to these for the purpose of forming the gender are d for the neuter singular, an for the masculine, and al for the feminine. When these demonstrative bases are simply prefixed to substantives, they convey the signification of the demonstrative adjectives 'that' and 'this.'

The Magyar demonstratives are somewhat in accordance with the Dravidian a and i: e. g., az, 'that;' ez, 'this;' but in most of the languages of the Scythian family no resemblance what-

ever is observed.

6. The Verb. The structure of the Dravidian verb has already been partially treated of in noticing the roots; a few farther

statements only will be added.

The verb has but one conjugation; class differences do indeed exist, but they are not of sufficient importance to constitute different conjugations. The Dravidian verb is remarkable for the simplicity of its structure, having but four moods—the iudicative, infinitive, imperative, and negative—and but three tenses -the past, present, and agrist. The modifications of thought indicated in other languages by the various moods and tenses are expressed in these by means of suffixed particles and auxiliary verbs. In these respects it resembles, though it does not equal, the simplicity of the ancient Scythian verb. It is more rarely compounded than the Indo-European verb, and the compound of a verb with a preposition, so common in the latter, is especially rare in the former. Though compound verbs are not unknown in the Dravidian languages, their use is not in harmony with the purer idiom, and when the component elements of such compounds are examined, it will be observed that the principle on which they are compounded differs widely from that of the Aryan tongues. The same remark applies to all the Scythian languages.

a. Causals. In the Dravidian dialects, there is a class of verbs termed causals. They have been classed with transitives

by both European and native grammarians; they differ, however, from transitives, as well as from intransitives, both in signification and form. They differ also from what have been termed causals in the Indo-European languages. These latter govern two accusatives, one the object of the causation, the other that of the action caused; e. g., 'I caused him to build the house' (domum); whereas Dravidian causals govern the one accusative only, that of the object, leaving the person to be understood, as if we should say 'I caused to build the house:' or else the person is put in the instrumental, 'I caused the house to be built by him.' Tamil idiom, and the analogy of the other Dravidian dialects, in contradistinction to the Aryan, requires that causals should be formed, not from neuter or intransitive verbs, but from transitives alone.

In all these particulars, these verbs not only differ from those of the Indo-European languages, but resemble closely the Turkish and other members of the Scythian stock. If, for example, we should take the transitive verb 'to send,' which would be regarded as a causal in the Indo-European languages, and desire to express the idea of 'causing to send,' i. e., of causing one person to send another, it would be impossible, by any modification of structure, to get a single Indo-European verb to express the idea; but it would be necessary to make use of a phrase, as in English. Whereas, in the Dravidian languages, as in the languages of the Scythian family generally, there is a form of the verb which will express the entire idea; e. g., anuppu-vi, which is formed from anuppu, 'to send,' by the addition of the particle vi. So, in Turkish, sev-dur, 'to cause to love,' from sev, 'to love.'

b. The negative. This is rather a mood or voice than a conjugation, and is expressed by means of inflectional additions or changes. In the Indo-European family, negation is usually expressed by means of a separate particle, used adverbially; whereas, in the Scythian family, every verb has a negative voice or mood, as well as an affirmative. This voice or mood is generally formed by the insertion of a particle of negation between the theme and the pronominal suffix; and this mode of forming the negative is as distinctive of the Dravidian as of the Turkish and Finnish. The Dravidian sign of negation inserted between the theme of the verb and the personal suffixes is α . probably derived from al, the isolated particle of negation in the oldest Tamil dialect. The widely extended affinities of this particle are deserving of a notice. The Finnish prohibitive is ala: And we find a similar prohibitive even in the the Ostiak, ilâ. Hebrew al and Chaldee lâ.

In Gond, one of the Dravidian dialects, the prohibitive particle *minni* is used. This particle is not suffixed, but prefixed to the verb, like the Latin noli. It closely resembles inni, the pro-

hibitive particle of the Behistun tablets.

c. The pretrite tense. The manner in which a language forms its preterite constitutes one of the most distinctive features in its grammatical character, and one which contributes to the determination of the question of its relationship. In the primitive Indo-European languages, this tense was generally formed by reduplicating the first syllable of the root or verbal theme; but this reduplication has in many instances been so softened and euphonized, that it has dwindled into the mere use of a different vowel in the preterite from that which forms part of the root.

The letter d is the older and more characteristic sign of the Dravidian preterite. It has many interesting affinities with corresponding signs of past time in various Indo-European and Scythian languages. It evidently has an anterior, though remote, connexion with t or ta, the ordinary suffix of the Indo-European passive participle; for in Sanskrit, this participle, though distinctively passive, has occasionally, when connected with neuter verbs, a preterite signification: e.g., gatas, 'one who went.' But though there is probably an ultimate connexion between the two, the use of the preterite suffix d is too essential a characteristic of the Dravidian languages, and that of t too rare an exception in Sanskrit, to admit of the supposition that the former borrowed it from the latter.

It is notable, however, how very generally the preterite is formed in the Turkish and Ugrian tongues, as in the Dravidian, by suffixing d: e. g., Turkish, sever-im, 'I love;' sever-d-im, 'I loved.' In Finnish, the preterite is regularly formed by suffixing t. So also in Hungarian: e. g., from the root le, 'to become,' is formed the past participle le-tt, and le-tt-em, 'I have become.' In Turkish, Finnish, and Hungarian, this particle is no way connected, as in the Sanskrit, with the passive participle, but is a distinctive sign of past time, and of that alone, and it is suffixed to all indicatives, whether active, neuter, or passive—in the latter case, in addition to the sign of passivity. In this particular, therefore, the analogy between the Dravidian preterite and the Turko-Ugrian is closer than the Indo-European analogies which have been referred to.

d. The pronominal signs. These, in the Dravidian languages, are always suffixed, not prefixed, as in the modern Indo-European vernaculars. Still another peculiarity is this, that the personal terminations are annexed, not directly to the root, as in the Aryan tongues, but to the tense participles; so that every pure Dravidian verb is, by Tamil grammarians, arranged in the the following order: 1st. the root; 2d. the medial particle, which is the sign of tense; 3d. the variation, i. e., the pronom-

inal termination. In the Indo-European languages we meet with no instance of a formation of this kind; but it is an essential element in the family likeness by which the Dravidian family is pervaded. It is also distinctive of the Turkish and other tongues of the Scythian group: e. g., in the Turkish ∂l - $\hat{a}r$ -sen, 'thou art,' ∂l is the root, $\partial l\hat{a}r$ the present participle, and sen the pronominal termination of the second person: in Tamil \hat{a} -n- $\hat{a}\hat{y}$, 'thou hast become,' \hat{a} is the root, n the tense-sign, and $\hat{a}\hat{y}$ the personal termination.

e. The Relative Participle. It is a marked peculiarity of all the Dravidian idioms, that they have no relative pronoun whatever, and that its place is supplied by a part of the verb called the relative participle. This partakes of the nature of an adjective, and is invariably followed by a noun. Like the adjective, it undergoes no alteration on account of the number or gender of the related noun; but, in that it is a verb as well as an adjective, it governs the preceding noun, like any other par-

ticiple of the verb to which it belongs.

The suffix most generally used by the Dravidians to form their relative participles is a, which is appended to the verbal participle or gerund. In this way the verbal becomes converted into a relative participle: e. g., from ôdugir, 'running,' comes ôdugir-a, 'that runs'—and so for the other tenses. This a seems to have been originally the possessive case-sign, containing the

signification 'possessed of,' 'which has.'

In the Scythian languages, a relative participle is used instead of a relative pronoun, as in the Dravidian tongues; and the existence of a family likeness in so remarkable a particular is a strong proof of relationship. The particle used for forming the relative participle is in both groups identical with the sign of the possessive case used in the languages respectively; and farther, this sign is appended, as in Tamil or Canarese, to the verbal participle: e. g., in Manchu, from ara, the root, comes aracha, the past verbal participle, and from this is formed the relative participle aracha-ngge, 'which wrote.' The Scythian tablets, as also the Mongolian, have relative suffixes, appended and used as in the Dravidian languages.

In the Turkish and Finnish, and some other languages of the Scythian group, we find the existence of a relative pronoun, as well as of a relative participle, but this is foreign to the grammatical structure of those languages, and has evidently been borrowed from the usage of languages of the Indo European

stock.

7. Glossarial affinities. Very many Dravidian words exhibit a near relationship to words found in some of the languages of the Scythian, particularly to those of the Finnish dialects. These are clearer, more direct, and of a more essential character

than any observed correspondences with words in the Indo-European or Semitic languages. It is, moreover, to be particularly noted that many of those words in which affinities have been observed are of a primary character, and almost vital necessity. (For a list of these words see Caldwell, pp. 476–489.)

"How remarkable that the closest and most distinct affinities to the speech of the Dravidians of intertropical India should be those that are discovered in the languages of the Finns and Lapps of northern Europe, and of the Ostiaks and other Ugrians of Siberia! How remarkable that the Pre-Aryan inhabitants of the Dekhan should be proved by their language alone, in the silence of history, in the absence of all ordinary probabilities, to be allied to the tribes that appear to have overspread Europe before the arrival of the Goths and the Pelasgi, and even before the arrival of the Celts! What a confirmation of the statement that 'God hath made of one blood all nations of men, to dwell upon the face of the whole earth!"

NOTE BY THE COMMITTEE OF PUBLICATION.

We cannot refrain from offering here a few remarks upon the subject of the preceding paper, particularly as Mr. Webb states himself to have been urged to its preparation by our, in part unfavorable, criticisms upon Mr. Caldwell's work. While fully acknowledging the merits of the latter as regards its proper subject, the comparison with one another of the Dravidian languages, we ventured to express our doubts as to the conclusiveness of its author's argument to prove the affiliation of those languages with the Scythian stock. And this chiefly for the reason that, as he himself acknowledges, he is master of only one of the terms of the comparison, having no familiar acquaintance with any of the Scythian dialects, much less a comprehensive knowledge of them, in their history and mutual relations. This objection has been nrged, with much force, against Müller's parallel reasonings upon the same subject in his Letter on the Turauian Languages. To compare, for the purpose of establishing a relationship which is at best a remote one, languages of which one has not a knowledge both extensive and penetrating, so as to be able to distinguish ancient from modern, fundamental from accidental. and the like, cannot but be an uncertain and unsatisfactory process. the comparative grammar of the Scythian languages had been worked out with the same thoroughness with that of the Indo-European, such an undertaking would be vastly more feasible. But this is very far from being the case as yet. Moreover, the dialects of the Scythian family are remarkable for their great discordance with one another, for the slenderness of the ties which connect them, and the immense variety of elements and forms which they exhibit; hence the facility of going astray in an incautious ramble through such a wilderness of lexical and grainmatical materials is extreme, and a careful comparative study of the different idioms, and a wary determination and selection of features among them which can be pronounced of general occurrence, and genuinely ancient, ought to precede any detailed comparison with another family of languages. Here, however, Mr. Caldwell's philological method is at fault; it is fairly open to criticism throughout as superficial, venturesome, and credulous. He is much too ready to accept coincidences of any kind, degree, or origin, as evidences of historical connection. He even catches, as lawful matter of comparison, at the degenerate forms of the modern Persian, and the dialectic peculiarities of present Teutonic ver-His whole parallelism of Dravidian words and forms with Indo-European and Semitic, for the purpose of proving an ultimate connection of the former with the two latter also, contains the merest assonances and chance coincidences, of no account as historical evidence. We should have expected sound philological method, if anywhere, in the comparison of Dravidian and Sanskrit, considering the accessibility of the material, and the position of the author as an Indian philologist: but of the Sanskrit words compared, at least four-fifths would at once be recognized by a Sauskrit scholar as not ancient or gennine constituents of the language. Nor is Mr. Caldwell more accurate in his characterization of the primitive religion of the Indo-Enropean race: of the three distinguishing features laid down by him as belonging to it (see p. 275, above), the first, metempsychosis, is so far from being original that it does not even appear in the oldest form of the Hindu religion, the Vedic; the third, a priestly order, is equally absent from the Vedic, as from the other primitive forms of the religion of the family; while the second, worship of the powers of Nature, is common to the Indo-European with other ancient forms of faith. It is not too much to say, we think, that all that part of Mr. Caldwell's work which concerns the comparison of the Dravidian race with any other than the Scythian is so nearly destitute of scientific value that its omission would have been a gain rather than a loss. That much of the comparison with the Scythian also is of the same character, we can hardly doubt; yet here the mass and variety of the collected evidence is so considerable, and the chauce that it may contain items of gennine and decisive value so good, that—considering the interest of the question, and the rarity of Mr. Caldwell's work-we were very ready to admit into the Journal, for more general and convenient examination, Mr. Webb's condensed and compacted sketch of the comparison; and would merely add here a few words farther of comment and criticism.

How far the so-called Scythian of the Mesopotamian and Persian monuments is entitled to be employed as a medial term in this comparison will be for the present a doubtful question among scholars, who have not yet generally accepted with confidence the results of the few investigators who claim to have made the remarkable discovery of an ancient Ugrian language and civilization—although it must be confessed that those investigations inspire the most lively hope that a light as welcome as unexpected is here to be shed on the remote history of the Scythic race. It can hardly be otherwise than in a linguistic way, however, at any rate, that this dialect should help in settling the question of

Dravidian and Scythian affiliation; since the place of the people speaking it is too uncertain to justify us in regarding them as a local intermediary between Ugria and India, or as marking a line of emigration from the former to the latter.*

The phonetic correspondences pointed out by Mr. Caldwell are for the most part too universal in their character, too readily explainable by ordinary physiological processes, to be of weight as evidences of special affiliation: there is hardly one to which abundant analogies might not be pointed out in languages confessedly not of Scythian stock. Even the appearance in Southern India of the peculiar Scythian law of harmonic sequence of vowels, in a sporadic and partial manner, we should not be inclined to lay much stress upon, considering the naturalness of the phenomenon, and the evident possibility of its independent development, at least to the extent shown, in languages not historically connected with the Scythian.

Among the numerous special coincidences of form industrionsly assembled and recorded by Mr. Caldwell, while there are unquestionably some which a profounder examination would show to be fallacious, others have a look of genuinencss which is very prepossessing. Whether these are in such numbers, and of such character, as entirely to exclude the possibility of explaining them as casual resemblances, such as may be found by careful search between any two groups of languages on the earth's surface, we should think would have to be reserved for farther

investigation and more careful sifting to determine. The most cogent arguments in favor of the relationship of the Dravidian and Scythian languages which the comparison instituted between them brings to light are, in our view, the correspondences of general form and spirit, apprehension of grammatical relations and treatment of linguistic materials, which they undeniably present. And if the science of comparative philology is strong enough to pronounce with confidence that such correspondences as are here displayed cannot be the result of analogous qualities of race, equal grade of capacity and culture, then the whole question is settled. But we are not certain that she has yet so far mastered the immense field of human speech as to be able to do this, and certainly there are few men living who are entitled to be accepted as her mouth-pieces in making the decision. We shall prefer, then, to consider the question of Dravidian affiliation as one not yet authoritatively settled, while giving Mr. Caldwell full credit for contributing most essentially to its final settlement, by such a thorough genetical and comparative exhibition of the Dravidian idioms as few groups of kindred languages, out of the Indo-European family, have vet received.

^{*} Mr. Webb, apparently from a misapprehension of the meaning of an ambiguous expression once employed by Mr. Caldwell, places Behistun in Beluchistan; it is in fact in western Media, not very far from the Mesopotamian valley.

ARTICLE VII.

ON LEPSIUS'S STANDARD ALPHABET;*

BY WILLIAM D. WHITNEY,
PROFESSOR OF SANSERIT IN YALE COLLEGE.

Presented to the Society October 17th, 1861.

More than once, within no long time past, inquiries have been addressed to us by those to whom the subject was one of practical importance, respecting the "Standard Alphabet" of Prof. Lepsius of Berlin: whether its method was so thorough, its results so correctly deduced, and the system of signs for sounds proposed by it so unexceptionable, that it deserved to be implicitly accepted, and should be made the absolute foundation of the reduction of new languages to a written form, and even allowed to supersede systems of orthography already for some time in use. We have therefore thought that it might be well to bring the matter before the Society at one of its meetings, when it was hoped that there would be those present who had had occasion to consider the orthographical question practically, and to make experience of its difficulties, and when, accordingly, a comparison of opinions might lead to more enlightened conclusions respecting it than are within the reach of a single inquirer. would have been highly proper if this Society, which maintains so intimate scholarly relations with so large a body of missionaries, scattered over every part of the heathen world, had at the outset given an express examination to Prof. Lepsius's proposed system, and formally sanctioned it, if found worthy of formal

^{*} Standard Alphahet for reducing Unwritten Languages and Foreign Graphic Systems to a Uniform Orthography in European Letters. By Dr. R. Lepsius, etc. London: 1855. 8vo. pp. ix, 73. This is a translation of Das Allgemeine Linguistische Alphabet. Grundsatze der Uebertragung fremder Schriftsysteme und bisher noch ungeschriehener Sprachen in europaische Buchstaben. Von R. Lepsius, etc. Berlin: 1855. 8vo. pp. 64.

Since the final revision and preparation for the press of the present Article was completed (Dec. 1861), we have received two additional contributions, of very high importance and interest, made by Prof. Lepsius to the same general subject with that of the work here treated of, in the form of communications to the Berlin Academy on the Phonetic Relations and Transcription of the Chinese and Tibetan Languages, and on the Spoken Alphabet of the Arabic and its Transcription. In both of them reference is made to a second edition of the Standard Alphabet, as in course of

sanction, or else offered criticisms and suggested amendments affecting it. So much might have been regarded as due to the importance of the work, the character of its author, and the auspices under which it was put forth: it having received the express approval of the Berlin Academy, one of the most eminent bodies of learned men, both philologists and physiologists, in the world, and been farther endorsed and recommended by several of the principal English and continental Missionary Societies; as well as, at a later date, by our own American Board. How extensive an actual trial and application the new alphabet has had, and what have been the results of such a practical testing of its merits, we are not fully informed: that it has been substituted at one important mission, at least—that to the Zulus in South Africa—for the alphabet formerly employed, is certain: and it is precisely from that quarter that one remonstrance or expression of dissent has been received. But such remonstrances are by no means to be taken as certain evidence of serious imperfection in a proposed orthographical system. It is a matter of common remark how extremely conservative we are in the matter of the spelling of our own language; what worshippers of the letter as well as of the word; how obstinately unwilling to write a vocable otherwise than as we have been taught to believe was the true traditional way of writing it: and the same tendency to hold fast that which is written does not quit us on foreign soil, and in dealing with strange tongues. Hence a general uniformity of orthographical method is hardly to be hoped for; the end which we may aim to attain is the providing of something like a uniform method for languages still to be reduced to writing, and a norm to which such alterations of existing orthographies as may be found practicable shall be made to conform.

If the missionaries and emissaries sent out to unlettered countries, and destined to be the first introducers there of modes of writing, had from the beginning been only Italians and Germans, the orthographical question would have worn a far less intricate

preparation. We greatly regret that we could not have made this the basis of our examination of Prof. Lepsius's system, and had almost decided to cancel our Article, or withhold it until we could take due note of any modifications of his views which their republication should exhibit. But, in view of the fact that our criticism has already (in the Proceedings of the Society for Oct. 1861) been announced as to be published in the present number of the Journal, and considering the uncertainty of the time of appearance of the new work, and that the first edition has been very extensively circulated, in its two versions, among missionaries and others, into whose hands the second may never come, we have concluded not to stop the printer. Such changes or fuller expositions of Prof. Lepsius's views as are brought to light in the two papers referred to will be set forth in marginal notes to this article, and should the revised Standard Alphabet, on its appearance, seem to call for yet farther attention, in justice to its author, we shall make it the subject of a separate treatment.

and pressing phase than now belongs to it. Unfortunately—in this respect unfortunately—they have been, in much the greater part, men to whom was native the English language, a language whose phonetical and orthographical system is more frightfully corrupt and confused than that of any other known form of human speech; men to whom, accordingly, it seemed not unnatural to write all kinds of sounds almost all kinds of ways; who lacked a distinct conception that each single sign was originally meant to have a single sound, and each single sound a separate and invariable sign, and that, in the history of writing, certain sounds and no others originally belonged to the characters of our own alphabet. Hence, in part, the confusion, to remedy which so much effort has been expended, and with only partial success. But there is also another, and a more deeply seated cause. Our written system is a scanty, and a rigid and non-elastic thing, compared with our spoken systems. The European alphabet, as it may well enough be called now, was invented—or, rather, modified into nearly its present form—to suit the Latin language at a certain stage of its development. Now phonetical systems grow, both by alteration and by extension; a still scantier system of characters would have answered the purposes of the Latin at a considerably earlier period in its history; but there is not one of the daughters of the Latin which is not both pinched and distorted in the tight and ill-fitting orthographical dress of the mother-tongue. than this, some languages, or whole families of languages, offer sounds which Latin organs never formed; and these, too, must have their representatives in a general scheme. And yet once more, sounds, occurring in languages either nearly akin with one another or of altogether diverse descent, which to a dull ear, or on brief and imperfect acquaintance, appear quite the same, are yet found, after an intimate familiarity formed with them, to be distinguished by slight differences of quality, dependent upon slightly varying positions of the mouth-organs in their utterance. From these various causes arises the necessity of eking out an imperfect scheme of written characters, in order to make it represent sufficiently a greater number of sounds. This is evidently a thing which cannot be done upon principles commanding universal assent, by the application of rules admitting of distinct statement and impregnable demonstration: it is one into which considerations of history, of usage, of practical convenience, must enter, and which therefore cannot but be differently solved by different people, according to the variations of individual preference: given a system of sounds to be represented, and a system of signs by modified forms of which the representation must be made, and ten different laborers will produce ten different alphabets, each, perhaps, having its advantages, and such that between two or three of them any one may find it hard to select the best. In order, then, to produce an alphabet for general use, two things, of quite diverse character, are requisite: first, a thorough acquaintance with all matters pertaining to the system of articulate sounds and their established representatives including an understanding of the physiology of the voice and the mode of production of spoken sounds, an acquaintance with the origin and history of alphabets and the primitive and now prevailing values of the characters composing them, and a familiarity with many tongues, of varying type—and second, such prominence before the eyes of the world, such acknowledged weight as an authority, such support from those for whose sake the work is done, as shall give that work at once a general currency, and recognition as a conventional standard. This second requisite is apt to receive less acknowledgment than it deserves; but it must be evident on a slight consideration that where, in the nature of the case, actual completeness cannot possibly be attained, nor universal satisfaction given, it will be better to accept in toto a system which has been and is likely to be accepted by a great many others, than either to alter it considerably, to suit our own ideas, or to take another system, which may be more to our mind, but which will probably be known to and noticed by only a few. And it appears to us that the Standard Alphabet of Prof. Lepsius may at least be claimed to unite and embody these different requisites in a higher degree than any other which has hitherto been put forth.

In the first place, as regards its vogue and acceptance. name itself of Lepsius is sufficient to attract a high degree of attention and favor to anything to which it is attached. Whereever throughout the world there are scholars, there he is known as one of the foremost scholars of the age, distinguished alike in philology, in archæology, and in history. This work of his, moreover, was brought out under most favorable auspices. was formally discussed and accepted, before publication, at a convention in London of men representing the most important interests to be affected by such a work. It has since been endorsed by the authorized representatives of four English societies, one French, three German, and one American, as we are informed in the Advertisement prefixed to the book as it lies in our hands: what other associations may since have followed their example, we do not know. This general acceptance, while it is a telling testimony in favor of the work itself, furnishes also a powerful reason why we should incline to take the most favorable view possible of it, even overlooking defects of not too serious a character which it may be found to contain, for the sake of securing a uniformity long desired, and now more hopefully in prospect than ever before. Of course, however, if the new system prove false in its fundamental principles, imperfect in its execution, or cumbersome in use, no weight of authority should prevail on us to give it our endorsement. Let us therefore inquire more particularly into our author's qualifications for the task he undertook, and examine critically his method and its results.

That Lepsius, before he threw himself especially into the study of Egyptian antiquity, had distinguished himself by philological and palæographical researches exhibiting great learning and great acuteness, is well known to all students of language. since that time he has devoted much attention to phonology is less known, but not less true. In the year 1853, he exhibited to the writer at Berlin the nearly-completed manuscript of an extended work on phonetics, and explained its general plan and That work has never yet been published, but the one before us may be regarded as founded upon it, perhaps in part excerpted from it. How wide is the basis of observation and comparison upon which its system has been founded is evidenced by the series of more than fifty languages—half of them African, the rest Asiatic, Polynesian, and American—to which, at the close of the little manual, the standard alphabet is applied. We thus have the fullest assurance that we are not solicited to accept the results of a hasty and half-digested, or of a narrow and one-sided, series of investigations; and we cannot help entering upon their examination with no small degree of prepossession in their favor.

A principal distinctive peculiarity claimed to belong to the Standard Alphabet of our author is that it is founded on a physiological basis. The exposition of this basis is, for the sake of brevity, omitted in the treatise; we are left to judge it from the results it yields, in the classification and arrangement of the sounds of the spoken alphabet offered, and in the selection of the signs allotted to them. The claim means, doubtless, that the alphabet is to be looked upon as underlaid by a correct analysis and description of the whole system of articulate sounds, or as involving an accurate determination of the manner in which each is produced, both absolutely, and relatively to others. is, of course, a prime requisite, without which no alphabet-maker can be anything but a bungler. It does not necessarily imply, however, a knowledge of the anatomy of the vocal organs, a detailed understanding of the construction and action of the parts of the throat which are concerned in the production of soundalthough this subject is a highly interesting and curious one, and well repays study. For the organs employed in giving individual and articulate form to the material-unintonated or intonated breath—furnished by the lungs to the mouth for the purposes of speech, are sufficiently within the reach of conscious observation to enable any one who has trained himself to watch their operations to describe and explain, with sufficient minuteness.

the mode of production of the sounds which he utters. There is also another requisite, hardly less fundamental, and which, though not put prominently forward by Prof. Lepsius, is a distinguishing characteristic of his work: one must be thoroughly acquainted with the history, original significance, and various applications of the characters out of which the alphabet is to be constructed. With these two—a thorough comprehension of the sounds for which signs are to be provided, and a complete knowledge of the signs to be employed to represent them—one may hope for a valuable result to his labors: the lack of either would be equally fatal to success.

As we cannot in all points approve and accept the physiological basis upon which our author's alphabet is constructed, we propose to offer here some criticisms upon it, although they may affect only here and there, and in a subordinate degree, the practical result of his work, or the system of signs selected to com-

pose the written alphabet.

In the first place, we object to the division of the spoken alphabet, in a physiological discussion, into the two distinct classes of vowels and consonants. This is a convenient practical classification, but it possesses only a superficial correctness. common usage is compelled to bridge over the gulf apparently assumed to exist between the two, by the admission of a class of "semivowels"—that is to say, of sounds which are half vowel and half consonant. In fact, vowel and consonant are only the opposite poles of a continuous line of progression, the successive steps of which are marked by the degrees of approximation of the mouth organs toward a complete closure. All sounds pronounced with more than a certain degree of openness have the quality which we call vocal, and are, to our apprehension, decidedly vowels; all, on the other hand, which have more than a certain degree of closeness possess the consonantal quality only, and are as distinctly consonants. But there is between these two degrees a neutral territory, so to speak; there are degrees of closure producing sounds which, without change of quality, may have the value either of consonants or of vowels. On this neutral ground stand the semivowels, the nasals, and even, in one or two exceptional cases, the sibilants. We cannot sanction, then, a theoretical system which makes the distinction of vowel and consonant absolute and fundamental, which holds the two classes apart from one another, and adopts for them two different methods of classification and arrangement: the unity which belongs to the alphabet as a whole, as a single concordant system, is thus, in our opinion, quite broken up or obscured. In seeking for a principle of arrangement under which to marshal the whole alphabet, we would adopt the same on which is founded the distinction of vowel and consonant, but we would apply it in a

different manner. The ground of distinction is virtually the antithesis of material and form, and the preponderance of the one or of the other. The material is the stream of breath, unintonated or intonated, furnished by the lungs, or by the lungs and larvnx, to the mouth organs: the form consists in the modifying action of the latter, converting the material into the greatly varied products which constitute the system of articulate sounds. Now the vowel a ("Italian a," as in car, father) is pure material: if the mouth be opened wide, all its organs retained inactive, and the intonated breath suffered to stream forth unimpeded and unmodified, this vowel sound is the result. A, then, with this its original and proper value, has a right in theory to stand, as in practice it so generally does stand, at the head of the alphabet. On the other hand, the forming element, the approach and modifying influence of the mouth organs, may be suffered to extinguish the material, as it were, by complete closure, and entire stoppage of the emission of breath, as in the production of the letters we call mutes: these, then, constitute the extreme limit of the alphabet on the consonantal side, as a on the vowel side; and between the perfectly open a and the entirely close k, t, p,* must admit of being arranged the whole system of spoken sounds. And not only do all the other sounds lie between these two extremes, but we shall even find that they arrange themselves approximately along lines joining the two, or drawn from the one point a to the three k. t, p, respectively. That is to say, there are lines of progression from the neutral openness of a towards closure at three different points in the mouth—one produced by a contact of the upper surface of the tongue with the palate in the back part of the mouth, another by contact of the tip of the tongue with the roof of the mouth directly behind and at the base of the upper teeth, the third by contact of the lips with one another; and different degrees of approximation along these lines give rise to the other sounds of the alphabet. On the line of palatal closure, the closest position capable of producing a sound which shall possess a vowel quality gives the vowel i (as short and long in pin, pique). In like manner, on the line of labial closure, the closest producible vowel is u (as short and long in full, rule). The line of lingual closure produces no vowels. These two vowels, i and u, the farthest removed from a in their respective directions, are, with a, the most primitive and the most universally occurring of all the vowels: and manifestly for

^{*} Of course, the consonantal limit may consist, in any given language, of as many different members as there are mutes in that language, or points in the mouth at which complete closure is allowed to take place: for the sake of brevity and simplicity, however, we shall here take notice only of those three which are met with in almost every language, and which in a majority of languages, probably, are the only ones found to occur—namely the palatal, lingual, and labial mutes.

the reason that, in the development of the system of articulations, those sounds were first struck out and employed for purposes of speech which were most broadly and markedly distinguished from one another: the more nicely shaded sounds, the intermediate vowels, as also most of the fricative consonants, are the growth of a later time, the product of a longer training of both voice and ear. Between a and i on the one hand, and a and u on the other, the two vowels of intermediate position, e (short and long in then, they) and o (long in note: the English has no short o, except in the pronunciation, frequent in this country, but unacknowledged by the orthoepists, of a few words, as home, stone, none), have been first struck out, and, either in their long or short forms, or both, are present in almost all languages; and finally, a few tongues, our own among the number, have developed between a and e the sound of a in hat, and between a and o the sound of a in all, usually called by us the "short or flat a" and the "broad a" respectively. These last are written by our author with an underlined e and o: thus, e, o-a method of transcription to which, as we conceive, no valid objection can be made, and for which we are perfectly willing to relinquish the signs which we have ourselves been hitherto accustomed to use for the sounds in question.

Prof. Lepsius constructs the usual triangle or pyramid of vowels, in the same form as that in which we have here stated it, viz:



but, as we cannot but think, without any due explanation of why they should be thus arranged. Indeed, his treatment of the vowel system is more unsatisfactory and open to criticism than any other part of his work. In the first place, he quits here altogether the physiological basis upon which he professes himself to stand, and, instead of giving us any account of the mode of formation of a, i, u, their relations to one another, and the reasons of their prominence in the history of language, he suffers himself to be seduced into drawing out a fantastic analogy between the vowel sounds and the colors, which has not the slightest substantial ground, neither teaches nor illustrates anything. and can only stand in the way of a clear and objective view of the actual phonetic relations of the subject. "There are three primary vowels," he tells us, "as there are three primary colors," and "the other vowels are formed between these three, as all colors between red, yellow, and blue"! And so onward, through his whole discussion of the vowels, we have nothing in the way of description and illustration other than what is afforded by the drawing out of this fanciful parallel: in place of a physical defi-

nition of any vowel sound, we are referred to the combination of colors which it may be imagined to represent. We submit that this is not merely a leaving out of sight one's physiological basis, but a trampling it under foot and rejecting it for a foundation of cloud; that it is a backsliding into the old reprehensible method in phonetics, of describing and naming things from subjective comparison, instead of from actual analysis and determination of character; and that the whole color analogy is quite unworthy of a place in our author's phonetic manual. Againand doubtless as a consequence, in the main, of thus leaving out of account the physical mode of production of the vowels—our author appears to misapprehend the relation in which the German ü (French u) and the German ö (French eu) stand to the rest of the vowel system. He speaks of ii as standing "between" i and u, and of ö as standing "between" e and o, in the same manner as e between a and i; and the reason why, between a and i, language has developed two vowels, e and e (a in fat), while between i and u it shows but one, is, in his apprehension, that "the distance between a and i is greater than that between i and u." But, in fact, the two cases are of entirely diverse character. From a to i is a line of direct progression, a process of gradual approximation of the organs, in which there are theoretically an infinite number of different points, or degrees of closure, each of them giving a different vowel sound—just as there are between the key-note and the fourth an infinite number of possible musical tones, distinguished from one another by minute differences of pitch; although the natural scale makes use of but two of them, the second and the third, as the spoken alphabet of but two of the vowels intermediate between a and i, viz. e and e. But between i and u, as being produced by approximation of the organs at two distinct points in the mouth, there is no line of continuous progression, except by going from either of them back to the neutral point α , and thence taking a new start in the direction of the other. It is plain, then, that ii cannot be a vowel intermediate between i and u, in the same sense as e between i and a; it is rather a vowel combined of i and u. or in the pronunciation of which the position of the lips is that in which u is uttered, and, at the same time, the position of the tongue is that in which i is uttered. It is quite possible to describe this sound, usually so difficult to be learned by those in whose mother-tongues it does not occur, and to make its acquirement a matter comparatively easy, by laying down this rule: fix the tongue to say i (as in pique, machine), and pronounce that letter; and then, without moving the tongue, fix the lips to say u (in rule): the combination gives the required sound. and teach ö is by no means so easy, because the positions assumed by the tongue and lips respectively in its utterance are

less distinct and marked, and so are harder to maintain by conscious effort: there is also less persistent uniformity in its pronunciation than in that of ü: while the French u and German ü are absolutely identical in character, a slight difference is generally acknowledged between the French eu and German ö; both are, without doubt, combinations of a medial palatal with a medial labial approach of the organs, but the degrees of approximation are very slightly different in the two: indeed, French orthoepists also recognize differences in the quality of their eu in different classes of words. We can hardly trust ourselves to pronounce a decided opinion upon matters of so delicate distinction between sounds not native in our own mouth; but we do not think that the differences of quality referred to are greater than subsist between the short and the long i in German or English (in kinn, ihn, or pin, pique), or between the short i of the German and English (which is a little more open than the long i) on the one hand, and that of the French (which has precisely the same quality as the English, German, and French long i) on the other, or that they call for different characters to represent them. And that there is any like combination of the positions of e and o (a in fat and a in all), forming a third vowel of the same class as is assumed by our author, in order to fill up his system—we do not at all believe; his g may be omitted as superfluous.

Prof. Lepsius proposes to write these two combined vowels, vowels of double position, or palato-labial vowels, as we may call them, in a manner analogous to that adopted in German, but with the double point, or diæresis, written below instead of above the letter, in order to leave room above for marks of quantity, accent, nasalization, and the like. This consideration is well worthy of being taken into account; yet we would suggest that, as most fonts of type contain ö and ü, and not the reversed forms, it be allowed to employ either without incurring the blame of violating the system. In practice, both forms are about equally serviceable, as it is not usual in continuous text to mark accent and quantity; nor could any ambiguity arise from the license, as the two dots are not elsewhere employed as diacritical signs in

the alphabet proposed.

In like manner as the separation of \ddot{o} into two sounds (o and o), and yet more into three $(\varrho, \varrho, \text{ and } \varrho)$, seems to us superfluous, so does also that of e into e and e, and of o into o and o.* Our author, indeed, is inconsistent with himself as regards them: now he gives both (p. 26 [24]); now he gives only one, and at one time only the simple forms, at another (p. 29 [26]) only the dotted.

A single dot beneath the vowel is meant to indicate a closer utterance. ♦ We cite first, in all references to the Standard Alphabet, the page of the English version, adding in brackets the corresponding page of the German original.

In his list of the vowels with illustrative examples (pp. 47, 48 [42, 43]) he includes both, but virtually admits the uselessness of the distinction, by being forced to leave one of the two forms without an example, or else to illustrate it by setting up as discordant the pronunciation of the English e in men and the German in wenn, between which we defy the keenest living ear to detect a difference of quality. We are thus able to dispense with all those signs which have a twofold discritical mark below—a great advantage, since they could not but be found very cumbersome

in practical use.

The vowel usually known in English as "short u" (the u of but, current, and the like; the o of son) is one of the hardest matters with which the constructor of a phonetic alphabet is called upon to deal. Its distinctive character is the absence of character; it is the neutral, the indefinite, the uncharacterized vowel, a product of the intonation of the breath alone, with the lips just parted to give it exit. It differs from a, in that for the utterance of the latter the mouth is opened with the honest design and effort to give forth a sound, while for that of the other it is indolently left as nearly shut as may be: both are alike free from any consciously modifying and individualizing action of the mouth organs. The opinion referred to by our author (p. 26 [24]) as held by "some scholars," that the other vowel sounds issued forth and grew into individuality from this one, seems to us to lack even the semblance of a basis. We know of no historical evidence supporting it, nor can we regard it as called for by, or consistent with, sound theory. When an untaught race begin to learn to paint, they do not use neutral tints, but the brightest and most startling colors. The beginnings of speech were attended with hearty effort and labor; the most strongly characterized and broadly distinguished sounds composed its first alphabet; it no more began its vowel system with the neutral vowel than its consonant system with sibilants and spirants. The vowel in question comes in rather by the corruption of other vowels, by the process of slighting them, and robbing them of their distinctive qualities. It can hardly be said to appear at all in the best style of German pronunciation; in French it occurs only as the lightest and briefest possible succedaneum of an e which is to be made as nearly mute as may be, or as nasalized in the combination un; the English is the only modern European language, so far as is known to us, which elevates it to an entire equality with the other vowels, allows it in accented as well as unaccented syllables, and gives it both a short and a long value (as in hut, hurt). It is also found extensively in the languages of India, as the result of the dimming of an original short a, and it abounds in the idioms of the aborigines of this continent, the general pronunciation of whose vowels, except in

accented syllables, is peculiarly dull and indistinct. The practical question is, what sign shall we choose to represent it? the u which to the English apprehension is its most natural sign, the e to which alone it belongs in French and German, or the a out of which it has generally grown in countries farther east? Our author decides for the second, and writes it as an e with a little circle beneath as discritical point: thus, e. This will answer well enough; we have no such objections to urge to the sign as should lead us to reject it entirely; yet we confess that we should ourselves have rather chosen the a as a basis, for the reason that there is a nearer relationship between a and the sound in question than between the latter and e. E is a palatal vowel: a is neither palatal nor labial, but is, like the neutral vowel, uncharacterized; only in the one case the mouth organs have been by a conscious effort removed, that they may not affect the uttered stream of intonated breath, while in the other, though they contribute nothing by conscious action to the production of the sound, yet, by being left in the way of the breath's free passage. they dim and dull it, producing this grunting sound, the most ungraceful of the whole vowel system—or only less ungraceful than the nasalized form which it assumes in the French un.

There are some other points in the scheme of vowel-signs and examples given by our author (pp. 47, 48 [42, 43]), besides those we have already noticed above, which seem to us open to criticism. The English vowel sounds, the special difficulty of which Prof. Lepsius alludes to in another place (p. 25 [23], note), are not always well placed and properly paralleled. The designation of the diphthongs and nasal sounds is also in various instances defective in point of consistency with the rest of the alphabet. To represent, for example, the English oi in join by a simple oi, while the first constituent of the compound is not the sound to which the system assigns o for a sign, but that represented by \tilde{o} , is an undesirable inaccuracy. So also the French nasal sound in bien, vin, cannot properly be written with \tilde{e} , as our author proposes, since the vowel sound which receives the nasal quality is that to which \tilde{e} has been before assigned as representative.

We come now to the consonants. And, having already expressed ourselves as not entirely satisfied with our author's general treatment of them—as a class altogether separate from the vowels, and requiring a diverse method of arrangement—we will here first proceed to set forth our own ideas as to how both classes may and should be presented in one harmonious and concordant system.

As has been remarked above, i and u are the two vowels of closest possible position on the side of the palate and of the lips respectively. In them we are on the very borders of the consonantal territory; so that even i and u themselves, when com-

ing before an opener yowel, as a, in the same syllable, take on a character no longer purely vocal, and become the "semivowels" y and w. That the latter are not at all closer in position than their corresponding vowels, we are not prepared to maintain: indeed, it is certain that they are sometimes made so, else we could not utter the syllables ye, woo: but it is questionable whether they have this greater degree of closeness except when it becomes necessary to distinguish them from a following \bar{i} and \bar{u} ; and, at any rate, the difference between them and \bar{i} and \bar{u} respectively is not greater than between long and short i, long and short u, as pronounced by English and Germans; it is so insignificant that some languages, as the Latin, have no more thought of distinguishing by a different character y from \bar{i} , and w from \bar{u} , than \bar{i} from \bar{i} , and \bar{u} from \bar{u} . It is practically more convenient, however, to have separate signs for the consonantal values of these two vowels, and the great majority of orthographers will agree with our author in adopting such. With y and w are to be classed, as semivowels, \dot{r} and \dot{l} . In these sounds we begin, at last, the lingual series. We have already noticed that the lingual approximation of the organs, or that of the tip of the tongue to the fore part of the roof of the mouth, gives rise to no vowels The modifying action seems too far from the throat to act with effect upon the stream of intonated breath. It is to be observed that in the production of the labial series of vowels the approach of the lips is not solely the immediate, but in part also the mediate producing cause, by the action which it accompanies and facilitates at the base of the tongue. For it is possible, by a violent effort to change the position of the tongue at its root, to pronounce a pretty clear α , even with the lips in the position in which u is ordinarily uttered; and, on the other hand, one may bring forth, by a like effort, the whole series of labial vowels, with the lips and teeth held immovably in the position in which one naturally pronounces i. But if the lingual position produces no sounds which are solely or prevailingly vocal in their character, its semivowels have in many languages the value of vowels. and it is also much more fertile of consonants than either of the others. Thus, in the rank now under consideration, we have, instead of one semivowel only, two different ones; which, however, are very closely allied, most frequently pass into one another, and in etymology, as is well known to all students of historical philology, hardly count together for more than one letter. They are described by Prof. Lepsius (p. 30 [27]) as both "formed by a contact, which is vibrating in r, and partial in l." This is not altogether satisfactory: for, as any one who speaks English can perceive, vibration is not necessarily characteristic of r; that sound may be uttered as smoothly over the tip of the tongue as any other; and what a "partial contact" is, as distinct from a

near approximation of the organs, such as is universally characteristic of fricative sounds, it is not easy to see. The real definition, if we are not mistaken, is this: r and l are both breaches of the close position in which a t or d is produced; in the r, the breach is made at the tip of the tongue; in the l, it takes place at the sides, the tip remaining in contact with the palate.* Both may be formed at many different positions along the roof of the mouth: wherever a d can be uttered, there it can be broken into an r and an l. In English, as in Sanskrit, the r is ordinarily attered with the tip of the tongue reverted into the dome of the palate, and is not vibrated or trilled, as it hardly admits of being in that position: in languages which have developed a "cerebral" series, r is properly placed at the head of that rank; where there is none such, it may well enough be left with l, in the lingual There is also another *l*—not referred to, we believe, by Prof. Lepsius, but forming an important constituent of more than one modern alphabet—which possesses a markedly palatal character, and stands in intimate relations with y. It has the distinctive and indispensable characteristic of an l, that it is produced by an opening at the sides of the tongue; but the intervening closure is made by the middle surface, and not by the tip, of the tongue: it is the breach of such a d as is formed by pressing the flat of the tongue against the roof of the mouth, well within the dome of the palate.

From y and w respectively, a very slight additional degree of closure gives us the full stoppage of the breath represented by k and p. And if there is any reason why our author should have arranged the vowels in the triangular method adopted by him, there is precisely the same reason why he should have prolonged the sides of his triangle to their natural terminations in the mutes. If we may follow down the line of progression from a to e, from e to e, from e to i, why not keep on in the same direction, from i to y, and from y to k? and why not, in like manner, from a to p, instead of stopping short at u? If the triangle be thus completed, t will properly enough occupy the middle of its base, as belonging in the same rank with k and p, and as being produced by closure of the organs at a point between the labial and the palatal. But before we proceed to construct the triangle, it is necessary to take account of two matters which have not yet been considered. First, though the aperture of the mouth be closed by contact at the three points referred to, there is still a way for the exit of the breath, namely through the nostrils, and the permission of its escape in this way gives rise to a distinct class of sounds, called nasals. There may be, or must be, in any language, as many sounds of this class as there are mutes;

^{*} In his paper on the Arabic (p. 140), Prof. Lepsius explicitly speaks of the l as thus formed.

each letter of complete closure has its corresponding nasal: so to p, t, k correspond m, n, and the English ng (in sing; or n in anger, ink). Observation shows us, however, that hardly any language gives to the palatal nasal the same value, as an independent constituent of the alphabet, as to the other two: it is employed only in a subordinate capacity, either solely before a palatal mute, or also at the end of a syllable, where a palatal mute has in pronunciation been lost after it, as in English and Hence it has no sign allotted to it in the Latin alphabet, and one must be devised and applied to its designation. Our author chooses n with a dot above as discritical point: thus, \dot{n} which seems unobjectionable, if not found to be inconsistent with other signs to be adopted later. The second point to be noticed is that the close positions in which k, t, p are uttered give rise, not to those letters only, but also to another set, g, d, b. Prof. Lepsius distinguishes the two classes by calling the latter "soft," the former "strong" or "sharp"—terms which he prefers, apparently, to the more natural and usual correlative of "soft," viz. "hard." This whole nomenclature seems to us exceedingly objectionable, as founded on fanciful analogy rather than on physical analysis. The terms hard and soft, once so usual, have of late become in good degree banished from phonetical works, and their re-introduction by our author is a regrettable step in a backward direction. Much as we dislike the color analogy, already spoken of, we would almost as lief see a, i, u, ü, etc., habitually called in our author's pages the red, the yellow, the blue, and the green vowel, etc., respectively, as to find p and b, and s and z, entitled the strong and the soft mute or sibilant. The use of these terms by our author, however, depends in great part upon an actual defect in his physiological analysis of the sounds to which they are applied: he has no clear, penetrating, and everpresent appreciation of the difference between what he calls the strong and the soft letters. This defect is something rather characteristically German: it is really amazing how some of the most able physiologists and philologists of that nation have blundered over the simple and seemingly obvious distinction between an s and a z, an \bar{f} and a v, a p and a b, etc. Thus, to cite but an instance or two, the really eminent physiologist Johannes Müller can see no difference between a p and a b except a difference in regard to the force of utterance; and the noted grammarian Becker can find nothing better to say of them than that the one, the soft, is naturally fitted to stand at the beginning of a syllable, and the other, the hard, at its end: that is to say, that but is a correct and normal compound of sounds, while tub is something topsy-turvy, an infraction of the order of nature. and ought not, we suppose, to be uttered—as, by most Germans, it cannot be. The more usual way of settling the difficulty is

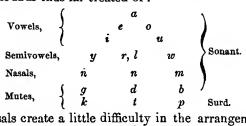
to assume what is implied in the names "hard" and "soft": that s differs from z in being pronounced with a greater effort of the organs; that it is a hard or strong utterance, while z is weak or soft: and this is utterly erroneous, for either can, without alteration of its distinctive character, be pronounced with any required degree of force—with the gentlest possible emission of breath, such as hardly yields an audible sound, or with the most violent expulsion of which the organs are capable—and in ordinary use they do not at all differ from one another in this respect. Our author should have allowed himself to be instructed as regards the point in question by the Hindu grammarians, to whom he finds just occasion to refer more than once as distinguished for their skill in phonetic analysis, and capable of becoming our guides to the understanding of the sounds of our own languages (p. 15 [14]): none of them, so far as we know, fails to define correctly the difference between "hard" and "soft" letters. himself comes very near the true explanation once or twice, as where he notices (p. 27 [24]) that all the soft fricative consonants include in themselves an intonated sound, or vowel: such a sound is, indeed, included in them, as well as in the soft explosives, and it is precisely this that makes them soft, for "soft" differs from "hard" solely in being uttered with intonated breath, instead of unintonated; that is to say, with sound, instead of breath alone. It may seem a contradiction to speak of a mute letter—for instance, a b—as uttered with intonated breath; but the difficulty is only an apparent one. Intonated breath, as any one may readily convince himself by experiment, can be forced up into the mouth even when closed, until the cavity of the mouth is filled with the air so expelled. Thus, with the lips compressed, and no exit permitted through the nose, one may make a sound, in which, even without the closure broken, the ear will recognize a b quality, and which will last until the cheeks are fully distended, perhaps a second or two: time enough, though short, to utter a The syllable pa differs from ba, then, in this: in dozen l's in. the former case, the intonation of the breath, the expulsion of sound, begins the instant that the labial contact is broken; in the latter case, it begins the instant before: apa differs from aba in that, in the one, the breath loses its sonant quality during the instant of closure represented by p; in the other, there is no cessation of intonation from beginning to end of the utterance. the fricative or continuous letters, as s, z, or f, v, the case is yet more conspicuously clear; and no one, we are confident, can fail to convince himself by a very little trial that the only difference between any such pair of sounds lies in the difference of the material which is furnished from the lungs and throat to that position of the mouth organs which is characteristic of both. The only proper names, then, by which the two classes of sounds should be distinguished are intonated and unintonated, vocal and aspirate, sonant and surd, or the like, and such terms ought to be substituted throughout for our author's "soft" and "strong," to the rigorous exclusion of the latter.*

* In his papers on the Chinese and Tibetan and on the Arabic, Prof. Lepsius recognizes the difference in respect to intonation between the two classes of sounds here in question, and more usually calls them by names which are measurably free from the objections we have urged against "soft" and "strong." But in the latter paper (pp. 106-10), after an elaborate discussion of the phonetic relations of the two classes, he comes anew to the conclusion, which we cannot but deem an erroneous one, that, while intonation does indeed constitute a usual distinction between strong and soft sounds, it is not, after all, the primary and fundamental one: this being, rather, the difference in strength of the emitted breath. Without entering into a detailed analysis of his argument, which would necessarily occupy several pages, we would point out that there are two circumstances by the misinterpretation of which he seems to be especially led astray. The first is, that there is actually a less emission of breath in the production of the intonated than in that of the unintonated letters. If there is no intonation, if the vocal cords remain relaxed, the whole aperture of the larynx is left open for the escape of breath, and the lungs may in a very brief moment be entirely emptied of their content: if there is into-nation, the aperture is almost closed by the elevation and approximation of the membranous valves the vibration of whose edges produces the tone; a mere slit is left for the passage of the breath, and this cannot be completely expelled from the lungs until after a prolonged utterance of sound. Thus, other things being equal, a surd letter will cause a greater expenditure of breath than a sonant; but it is, we are sure, a direct reversal of the true relation of things to make the diminution of the column of breath the primary, and the intonation the secondary and subordinate circumstance. We understand I'rof. Lepsius, by his scale of maxima and minima, to admit that more breath may be expended in the violent utterance of a sonant than in the gentle utterance of a surd; yet to hold that the strength of utterance is the main thing, because, through the whole scale of degrees of force, the aurd sound would employ more breath than the sonant of corresponding strength. Is not this very much as if one were to say that the essential physical difference between male and female lies in the inferior strength of the latter; since, though a man of minimum power may be weaker than a woman of maximum power, yet a maximum man is stronger than a maximum woman, and a minimum man than a minimum woman? If we may increase and diminish the force of utterance of either a surd or a sonant letter, and to a marked degree, without alteration of their distinctive character, then it seems clear that force of utterance cannot be their distinguishing characteristic: while, on the other hand, if it be true, as we confidently maintain, that the element of intenation cannot possibly be introduced into an f, for instance, without immediately and necessarily converting it into a v, nor the element of intonation taken away from a v without at once making an f of it, we cannot he sitate to regard the presence or absence of intouation as determining absolutely the distinctive character of the sounds in question.

The other circumstance to which we regard Prof. Lepsius as giving a false value is that in whispering we are able, to a certain extent, to make audible the distinction between surd and sonant. In whispering, the place of tone is taken by a rustling of the breath through the larynx—we presume, between the edges of the vocal cords, which are approximated, but not sufficiently so, nor with tension enough, to produce actual sonaut vibration, although approaching this in proportion to the effort which is made to attain loudness and distinctness. It may be compared to the first hoarse rush of steam through an imperfect steam whistle, approaching, and finally passing over into, clear sound. There is enough of resonance in it to make all the vowels and semivowels distinctly audible, and it can in some measure perform the same office for the sonant consonants: yet very imperfectly; it requires a labored effort at distinctness of utterance, and the close attention of an ear not too far removed, to distinguish a whispered saza and fava from zasa and vafa. We cannot see that the possibility of this partial substitution of an imperfect for a perfect intonation militates at all against the theory which regards intonation as the essential

distinction of the sonant letter from the surd.

We would construct as follows the complete tableau of the principal sounds thus far treated of:



The nasals create a little difficulty in the arrangement of the alphabet, inasmuch as they introduce an element which has no part in the formation of the other letters, and, while in position of the mouth organs they are close, like the mutes, they are nevertheless, in virtue of the freedom of the passage which they unclose, quite open letters, having many important analogies with the semivowels and vowels. Thus, both n and m are sometimes used as vowels, like r and l. For this reason we place them next the semivowels, between these and the mutes. Again-and this is perhaps the most marked common characteristic which unites them into one class—the vowels, semi-vowels, and nasals have all together but one corresponding surd, the letter h. This letter our author refers to a new class which he sets up, and calls the "faucal": he describes it as produced "behind the guttural point, immediately at the larynx" (p. 39 [34]). We cannot quite agree with this treatment of the h, which seems to imply that it has a characteristic position of its own, or is pronounced with the mouth organs fixed in a certain way, which we think is plainly not the case. Our European h, although in great part of guttural origin, has become a mere breathing, and is always uttered in the same position with the next following letter, which letter can be no other than a vowel, semivowel, or nasal. The h which precedes an $\bar{\imath}$, as in the word he, is an emission of unintonated breath through the same position of the organs which belongs to the \bar{i} , or through the close palatal position; before \bar{u} , as in hoot, it is uttered through the close labial position; the same is true of the h which precedes the semivowels y and w, as in the words hue (hyū) and when (hwen); and the Greek rough breathing before e was doubtless of like character. That is to say, in the production of the vowels, semivowels, and nasals, the approximation of the organs is not so close that the utterance through them of unintonated breath can give sounds individually characterized, and capable of being employed as independent members of the alphabetic system: all their positions together add but a single surd to the alphabet, the simple breathing or aspiration h. In the rest of the system, on the other hand, each position of the mouth organs adds to the alphabet two sounds, produced by the emission, the one of intonated breath, the other of unintonated.

And this distinction seems to us to draw through the system a more marked line of separation, to divide it into two classes more decidedly different from one another, than that between vowels and consonants. If we were to separate the alphabet into two

great classes, it would be rather here than there.

In proceeding to fill in the other classes of sounds which help to make up the complete alphabetic system, we may commence with the sibilants. The sibilant most universally found to occur. and the oldest and only primitive one in our family of languages, is the lingual s. This is, like r, a breach, made at the tip of the tongue, of the position of closure in which t is pronounced: the breach is a less open one, and the material expelled through it is the unintonated breath. Hence the so frequent historical transition of s into r; and hence even, in the Sanskrit, the prevailing phonetic relation of s and r as corresponding surd and sonant. The s, however, has its precise sonant correlative in z, which is pronounced with exactly the same position and degree of closure, and differs only in the material expelled, which is intonated. The other common sibilant is that which in our language is written, though a simple sound, with the compound sign sh. Prof. Lepsius does not expressly define it, yet we gather from what he says of it on page 45 [40], and from his classing it as "dental." that he would describe it in a manner with which we could not agree. The most instructive and decisive experiment which one can try in his own mouth upon the sibilants, is to apply the tip of the tongue to the roof of the mouth in front, just behind the upper teeth, uttering an s there, and then to pass the tip slowly backward along the palate, continuing the sibilant sound. will be perceived that, for a brief space, the resulting sound is clearly such as we should call an s, but that, as soon as the tongue passes the ridge at which the dome of the palate rather abruptly rises, the sibilant assumes the character of an sh, and maintains it, with unimportant change of quality, as far back as the tongue can reach in the mouth. The ridge referred to forms the dividing line between the region where s and that where sh is uttered, and this difference of region constitutes the essential distinction between the two sounds. The tip of the tongue is not necessary to the formation of either: its upper flat surface, applied in front of the ridge, is used by some persons in their ordinary utterance of s; while the usual sh is always produced by that part of the organ, applied within the dome: the sh sound, slightly different in quality from this, which is brought forth by turning the tip of the tongue back into the dome of the palate, is the Sanskrit "cerebral" sh-a distinct cerebral, like all the other letters of its class, and not identical with our sh, although so nearly akin with it. The position of the sh and its corresponding sonant zh (z in azure: the French j) is thus between the palatal and the

lingual letters, but very decidedly more akin with the former. The term "dental" is an incorrect one as applied to it, since not only are the teeth not at all concerned in its production, but it is even originated at a point quite distant from them. We have carefully avoided the use of the term dental throughout, because we think it a misnomer, even as allotted to s, z, d, and t. By long and careful trial, we have convinced ourselves that the close approach and contact which give origin to these sounds are not upon the teeth themselves, but immediately at their base and behind them. Even though the tip of the tongue touch the teeth in the utterance of t and d, the determining contact is upon the gum: the only sound producible between the tongue and the teeth themselves is that of th; the teeth are not tight enough to make a mute closure.

In his selection of a sign for this pair of sibilants, our author has not been quite so happy as usual. After rejecting the s with a spiritus asper above it (thus: \dot{s}), because the latter has a value of its own, which would not belong to it as thus used, he adopts as diacritical mark the usual sign of a short vowel, which is liable to precisely the same objection, and writes \ddot{s} , \ddot{z} . We should have chosen s', for just the analogy on account of which our author rejects it—because we regard the sound as properly palatal, and think it identical with the Sanskrit palatal sibilant. A dotted s, or \dot{s} , would also have pleased us better than the sign adopted, as being more easily written, and not suggesting a value which it does not possess. Still, the point is one of inferior consequence, and we should not think of seriously quarreling with the method of representation proposed by Prof. Lepsius.*

The sounds of the English ch in church, and j and g in judge, are represented in our author's system by $t\tilde{s}$ and $d\tilde{z}$, as being evidently compound sounds, containing as their final elements the surd and sonant sibilants just treated. These signs, however, include a slight inaccuracy, which we presume did not escape the notice of Prof. Lepsius, but was neglected by him as of insignificant importance. The t and d, namely, which form the first constituents of the compounds, are not the ordinary t and d, as uttered close behind the teeth, and with the tip of the tongue: they are brought forth within the dome of the palate, and by the flat of the tongue—that is to say, by a contact of the same organs, and at the same point, where a near approximation gives the sh sound. We properly require, then, some diacritical point to distinguish them from the common linguals, from which they differ quite as much, and in very nearly the same way, as the

^{*} In his later papers, we observe that he substitutes an angular mark, like a circumflex inverted, for the circular one: thus, š—following, apparently, the Slavonian usage to which he refers on page 35 [31].

Semitic sounds written by our author with a line beneath (t and d)-perhaps still more nearly as the Sanskrit palatals (according to his understanding of their character), which he represents by k', g'. The inaccuracy, it is true, is in great measure excused by the practical inconvenience of adding a second diacritical mark to the compounds, and by the awkwardness of introducing two new characters into alphabets which know the sounds represented by them only in these combinations; yet we should be inclined to draw from it an argument in favor of a yet simpler mode of Considering the peculiar intimacy with which representation. the elements of the sounds in question are combined—such that some orthoepists still persist in regarding them as simple, and that more than one language, elsewhere very careful to make its vowels long before double consonants, does not allow them to constitute position—we should not be unwilling to turn to account in their representation the otherwise useless c and j of the Latin alphabet. To write c for the sound ch, and to retain jwith its English value would, indeed, involve the inconsistency of writing compound sounds with simple signs; but this inconsistency may be set off against the inaccuracy of writing &, dz; and if we are dealing with a matter so knotty as to compel us at any rate to a violation of our system, is it not better to err on the side of practical convenience?*

The labial series has no sibilants; for its pair of fricatives, surd and sonant, expressed in our author's system by f and v, with their English values, so lack the hissing quality which distinguishes the lingual, palatal, and cerebral sibilants, that it seems preferable to put them into another class; which, for lack of a better name at hand, we will call the "spirants." Of these two, the f is more universally found, and of earlier developmentwhich is apt to be the case, as between surd and sonant letters of the same organic position. In their ordinary pronunciation, the upper teeth are placed directly upon the lower lip, and the breath, unintonated or intonated, forced out between them. They would be most accurately described, then, as dento-labials. German utterance of these sounds, however (and the same thing is claimed by some for the Latin f), brings the teeth much less distinctly into action: the German f and v (w) are almost purely lip sounds, crowded in upon the labial series between w and p. b.

^{*} The later papers of our author, already more than once referred to, show that he appreciates the force of this argument, and that the second edition of his Standard Alphabet will permit the use of c and j to represent the compound sounds here in question—yet with the addition to them of the same diacritical mark which he finally adopts for the sh and zh sounds: thus, \check{c} , \check{j} . These signs are quite an improvement, in our view, on the $t\check{s}$ and $d\check{z}$ which they replace, yet we hardly appreciate the necessity of writing with diacritical points characters not elsewhere employed in the alphabet.

The spirants of the lingual series are the two sounds, surd and sonant, of the English th, as instanced in the two words thin and this. They are properly dento-linguals, being, unlike the other letters commonly called "dental," actually produced between the tongue and the upper teeth. What part of either shall be used is a matter of indifference: the same sound is originated, whether the tip of the tongue be set against the inner surface of the teeth (only not so as to form a contact upon the gums), or whether its tip or any part of its upper surface be applied under the points of the teeth. For foreigners, who are wont to find great difficulty in catching and imitating this sound, it is a method infallibly attended with success to seize the end of the tongue between the teeth, and hold it firmly there, while the breath is forced out over it.

Before examining the characters adopted by Prof. Lepsius for the lingual spirants, it will be well to consider the rules which, at the outset of his treatment of the consonants (pp. 31-2 [28]). he lays down as necessary to be followed in the work of fitting signs and sounds to each other. The first two of these rules that every simple sound is to be represented by a simple sign. and that different sounds are not to be expressed by one and the same sign—are of obvious propriety, and their generally binding character will, we are sure, be universally assented to—yet even to the first of these we have been ready above to admit a single exception (or rather, to replace by it an exception admitted by our author himself to the second), in a peculiar case, and in order to gain what seemed to us an important practical advantage. The third rule is to the effect that those European characters which have a different value in the principal European alphabets are not to be admitted into a general alphabet. This shuts out from all employment such letters as c, j, x. To such a rule we are very loth to yield assent. With so scanty an alphabet as the Latin for material to make our system of characters of, it is very hard to have any part of it ruled out of use in advance. unless for more cogent reasons than can be urged in favor of this The multiplication of diacritical points, the introduction among the familiar letters of our alphabet of others of a discordant form and style, like the Greek, are both very inconvenient and very distasteful, and if they can possibly be avoided, wholly or partly, by a judicious use of Roman letters which would otherwise be left idle, practical good sense would seem to teach us so to avoid them. The value of the signs composing the general alphabet must, of course, be learned by every person who is to use it: not a single language possesses all its characters in the signification it attributes to them; it is but a small matter to add one or two more to the list of those which each person must teach himself to apply in a different way from that to which he has

been accustomed, or to adopt one or two convenient signs which in their assigned value must be learned by a majority instead of a minority, or a larger instead of a smaller majority, of those who use the alphabet. In fact, Prof. Lepsius himself furnishes a sufficient argument against his own rule, by palpably violating it in more than one instance: we will not insist upon the circumstance that he presumes to write the vowels and diphthongs by characters used according to their Italian values, while the English language, and in a less degree the French, gives them in many cases a quite different signification: but he also adopts w for the labial semivowel, in spite of the more usual value of the sonant spirant (v), which it has in other languages than English; he takes y for the palatal semivowel, although it is yowel, yowel and semivowel combined, and diphthong, one or all, in the principal languages of Europe: he represents the deeper palatal of the Semitic languages by q, which has not that value in a single European language; nor is his use of v and z free from similar objections. In every one of these cases, we heartily approve of the choice which he has made; but we do not approve of his cutting himself and us off from other such convenient adaptations, by the peremptory action of a rule which he observes so imperfectly. The fourth rule runs as follows: Explosive letters are not to be used to express fricative sounds, and vice versa. That is to say, for instance, c, of which the original sound was that of k, an explosive, or full mute, must not be used as a base upon which to form a character to represent the fricative, or continuable, sound of the German ch; t must not be altered to express the th sound, and so on. It is difficult to see why this should be made a peremptory rule, the binding force of which is not to be set aside by any opposing considerations. On the contrary, since the spirants, for example, historically develop themselves in numerous instances from the mutes, there would seem to be a peculiar propriety in developing their representative signs also from those of the mutes—if practical considerations be found to favor rather than oppose such a process. Our author's last two rules, we think, might better have been stated as important leading principles, not to be set aside without good and sufficient reasons.

But to return to the lingual spirants.—For the surd th sound, as heard in thin, throw, path, Prof. Lepsius adopts the Greek ϑ as representative: not without reluctance, for he feels the great undesirableness of introducing foreign characters into the Latin alphabet, and also allows that the primitive sound of ϑ was not fricative, like our th, but an aspirated t, or a t with an h closely following it. He is restrained, however, by his fourth rule from accepting any diacritically distinguished form of our explosives t and d to indicate the fricative spirants. We, on the other

hand, do not see why, if the rule is a good one, it ought not to hold good in dealing with the Greek as well as with the Latin alphabet, and we should have decidedly preferred to see our author devise some modification of t and d, of a different kind from those assumed to represent the "cerebral" and "palatal" t and d—for instance, a t and d with a stroke drawn through them—to stand for the sounds in question. But there are objections yet more powerful to his manner of dealing with the sonant sound, the th of this, though, with. Recurring to his erroneous explanation of the difference between surd and sonant letters, and regarding the sonant as a weaker or softer utterance of the surd, he proposes to mark the former with the same Greek letter 3, only writing a spiritus lenis above it to indicate its gentler pronunciation. Here, for the first time, we must positively decline to accept his proposal. It is hard enough to have to borrow a Greek letter for the surd sound; but to take the same sign for the sonant also, while everywhere hitherto surd and sonant have had different characters, and then to mark their difference by a sign which is founded upon and implies a false theory—this is more than we can possibly consent to do. Far better were it to follow the course for which our author himself expresses a preference, but, from an underestimate of the difficulties attending the other course, does not venture to adopt: namely, to take the Greek δ for the sonant character. If we must accept ϑ , let us by all means have δ also, in its Modern Greek value: that is even a less violation of the proprieties of the Ancient Greek than to set the smooth breathing over a consonant, and with a value in no way belonging to it.*

The two sounds of the German ch—the one following a, and the labial vowels o, u, the other following the vowels of palatal position, e, i, ü, ö, and those compounds of which the final element is palatal, as ei, eu—are allotted by Prof. Lepsius to the guttural and palatal classes respectively. The distinction between the two in respect to mode of formation is sufficiently clear: each is a rough h, as we may call it, rasped through the organs with the least possible change from the position of the preceding vowel. If the vowel is a palatal one, uttered between the upper surface of the tongue and the roof of the mouth, the succeeding ch is of the same character; it is produced by an expulsion of unintonated breath through the same position made a little more close: or it may even be by a more violent expulsion through the unchanged position, a throwing out of more breath than can pass the organs without audible friction. The ch after a, o, u is brought forth farther back, at the deepest point in the

^{*} We note that Prof. Lepsius has himself later definitively adopted δ and γ as signs for the dental and palatal sonant spirants.

throat, as it seems to us, where the organs can be so approximated as to yield a fricative sound, or at the point where the familiar and ungraceful operation of clearing the throat, or hawking, is performed. The former of the two, we think, approaches decidedly more nearly than the other to the point at which k and g are produced, and it is to be reckoned as of the same class with Prof. Lepsius calls k and g "gutturals," according to a very generally received nomenclature, and he ranks with them the deeper ch sound. We have all along avoided the use of the term guttural, as applied to the series in which the two mutes referred to belong, because it seems to us to suggest and imply a point farther back in the mouth than that at which they are actually produced. We entirely agree with our author (p. 40 [36]) in locating the place of utterance of k upon the soft palate, close upon where it joins the hard palate: their junction seems to be the line of division between lingual and palatal mutes, and behind it, even with the tip of the tongue, one produces a sound which is rather a k than a t. But the anterior part of the soft palate is hardly entitled to be called "guttural", or regarded as generating "guttural" letters: that term should rather be reserved for the deeper place of origin of the other ch; at or very near which is also produced, if our author's description be correct, the Semitic koph (Arabic , Hebrew p), very properly written by him with q, its graphic, though not its phonetic, equivalent in the European alphabet.

To represent the ch sounds, our author proposes to make use of the Greek letter z, writing the deeper or guttural sound with the simple character, x, and the higher or palatal with the same character accented, or \(\hat{\chi} \). Precisely the same objections lie against this expedient as against the adoption of 3, already treated of; and for our own part, at least, we should have preferred to take another course. There is a Latin letter still left unemployed in our author's proposed alphabet, which, although its usual signification is quite different from the sound now sought to be represented, has that signification in at least one of the principal languages of Europe, the Spanish; and which, moreover, is the graphic correspondent in Latin of the Greek x: we mean the letter x. Prof. Lepsius has considered the question of applying this letter to signify the ch sounds, and he rejects it, pronouncing it (p. 33 [30]) "altogether improper" for such a use. It is true that there are considerations of weight against it, of which we are by no means sure that they will not with many or with most judges have a preponderating influence, and cause the rejection of our proposal: but, in our own apprehension, they are all overborne by the signal advantage of taking a proper Latin sign, and turning to account all the characters of the Latin alphabet. The two points of connection between the sound and the sign which are furnished by the Spanish value of the latter, and by its graphic relation to x, we are ready to accept as sufficient, scanty though they are. It were, in fact, a great pity to come so near to adopting x, and yet not quite take it. If our author's proposal is followed, we shall, whenever his character is to be written as a capital, use the Latin X: why not accept the other form also—calling it, if we choose, latinizing our x, in order to adapt it to being written and printed with the other Latin letters?

The sonant corresponding to the surd ch sound is comparatively rare, and, if we are not mistaken, chiefly restricted to the deeper or guttural pronunciation: the palatal would pass too readily into y to be easily kept distinct from that semivowel. If the surd is to be written with χ , we should unhesitatingly take γ for the sonant, as is half proposed by our author; the χ which he finally decides to adopt is to be rejected, like θ , and for the same reason.* If χ should be accepted as the sign of the surd, it would be necessary, probably, to devise some modification of g for the sonant.

We have, then, the following, as a more complete scheme of a developed alphabet than was the skeleton formerly given: it contains the consonantal sounds most widely met with, including all those found in the English spoken alphabet:

Sonant		e_ii	e e ë ë ë	<u>o</u> <u>o</u>	u ~	brace Vowels.
	, y		r, l		ı	
Surd	h		n			m Nasals. Aspiration.
Sonant	ž š		z			Sibilants.
Snrd Sonant	γ		3 J			v)
Surd	x		ð			f Spirants.
Sonant Surd	$egin{array}{c} g \ m{k} \end{array}$		$egin{array}{c} d \ t \end{array}$			$\left. egin{array}{c} b \\ p \end{array} ight\}$ Mutes.
Sonant Snrd	j					Compound.
SHILL	C Palatal Series,		Lingual Series.			Labial Series.

Some things in this scheme require explanation, since it is not in all points so theoretically exact as the simpler one before presented. The vowels of double position, \ddot{u} and \ddot{o} , are placed

^{*} See the preceding note.

where they stand for the sake of convenience, and not as belonging in any manner to the lingual series: this is indicated by the line drawn below them, from which the lingual series is to be regarded as commencing. For the same reason, the neutral vowel is given a position under the a, with which, as explained above, it has the nearest relation. The labial spirants might suitably enough be set somewhat to the left, and the lingual spirants somewhat to the right, of the places allotted to them respectively, since each pair brings in a new organ, the teeth, intermediate in position between the lips and tongue. For a like reason, the palatal sibilants are entitled to a position farther to the right: they might, in a yet more fully expanded scheme, be set in an independent column. That the labial and lingual spirants are letters of closer position than the sibilants, and therefore to be placed between these and the mutes, is very clear. In their production, the teeth are actually in contact with the lip and with the tongue respectively, and it is only because the teeth are too open among themselves to be capable of making a close position that the resulting sounds are fricative, and not explosive. This is not the case with the ch sounds, which we have put in the same rank; these have, in many respects, closer analogies with the sibilants than with the spirants, and would be quite as properly ranked with the former; yet, as they lack the full measure of sibilation, are certainly somewhat closer in position than their nearest relatives among the sibilants, the sh sounds, and have historical analogies with the spirants—coming, in great part, from kh, as ϑ from th, and f from ph—we have ventured to give them the place they occupy in the scheme.

The alphabet, as thus drawn out, by no means includes all the sounds which our author treats, and for which he provides repre-Some languages present whole series of consonantal sounds differing from those we have thus far considered. most cases, however, they admit of being arranged without difficulty within the same general alphabetic frame-work. Thus, the series representing the Arabic في رص رض would come in just at the left of the common lingual series, being uttered, according to our author's description of them, * by applying the flat of the tongue, instead of its tip, to the same part of the palate where the tip produces the lingual letters, and being also, by general acknowledgment, uttered with greater effort, or stress of enunciation: they are very suitably represented in our author's system by the ordinary lingual letters, t, d, s, z, with an underscored line: thus, t, d, s, z. The Sanskrit so-called "cerebrals" would come next in order to the left; they have been already referred

^{*} See his special paper on the Arabic for a more penetrating investigation of these sounds, leading to somewhat different views respecting their character.

to, as uttered by turning back the tip of the tongue within the dome of the palate: Prof. Lepsius represents them in the usual manner, by lingual letters dotted beneath: thus, t, d, s, n. the left of these, again, would have to be ranged the letters of the Sanskrit series usually called the "palatal," if our author's view of them, as simple sounds, be accepted as the true one. They are now pronounced like the English ch and i and are more usually regarded as having had that signification from the beginning. It is not the proper place here to enter into a discussion of this difficult point: we will only say that the considerations adduced by our author in opposition to the common view. though very weighty, do not appear to us entirely convincing: and that we cannot regard the mutes of the series in question as differing from the English ch and i in such a manner and degree as to require other representatives than the signs already provided for those sounds. As for the sibilant of the class, we have already expressed our belief in its virtual identity with our English sh. Prof. Lepsius adopts the acute accent as sign of the peculiar palatal quality inherent in these letters, and writes the mutes, sibilant, and nasal as follows: k, g, χ, n . To the two last, as representing the palatal ch sound of the German, and the English n in inch, hinge (if the latter is worth expressing by a peculiar character at all), we have no objection—except that, as already explained, we would substitute x' for λ —the other two we do not think well chosen, even allowing the correctness of our author's explanation of their quality: for sounds produced by pressing the broad middle of the tongue against the middle of the hard palate (p. 42 [38]) would not have anything of that quality which we represent by k, g, but would be distinctly a kind of t, d: no letter produced farther forward than the soft palate can be entitled to use k or q as its representative. The difference between our alleged "palatal" pronunciation of k before e, i, and our "guttural" before a, o, u, is exceedingly slight, and by no means such as would be made in any alphabet the foundation of a distinction of classes and characters: the only way to establish a valid distinction between a palatal and a guttural k and g in the Sanskrit system would be to regard the latter class as uttered at the deep guttural position of our author's q (Semitic koph), and the former as corresponding to our customarv k, g.

Finally, Prof. Lepsius gives us a class of "faucal" sounds, which has not, so far as we know, been recognized by any other author as a distinct and connected series. As constructed by him, it has a very regular and normal look, comprising a pair of fricatives and a pair of explosives, each pair being composed, as elsewhere, of a "soft" and a "strong" sound; insomuch that the series seems quite analogous to the lingual s, z, t, d, or to the

labial f, v, p, b. But the analogy turns out, on closer examination, to be only apparent, and there are such weak points in the construction of the class as forbid us to accept it and place it parallel with those already received into the general alphabetic The first member of the series is the common aspira-Of this we have already sufficiently spoken, showing why we cannot regard it as "faucal": it is faucal in no other sense than as all voice, intonated or unintonated, must of course come through the fauces; and so, if there is no modifying action on the part of the mouth organs, the sound produced might, in a negative way, be styled a throat-sound, or a faucal, or a laryn-But the h is plainly no member of a faucal series in the sense in which the other sounds we have been considering are members of a palatal series, a lingual series, and so on—namely, as having received a distinctive character by the action of the organ from which it derives its name; it is simple unintonated material, breath uncharacterized, or insufficiently characterized. The next member of the series is the Greek smooth breathing. This is regarded by Prof. Lepsius as a consonant, which necessarily and invariably precedes and ushers in a vowel not immediately preceded by any other consonant; he defines it as consisting in a slight explosion produced by the opening of the throat for the effort of utterance. Now we are quite unable to convince ourselves that there is any such thing as this alleged smooth breathing, having a positive and necessary existence. It is, indeed, possible to shut the throat and open it again before a vowel with an audible click (and yet the click will hardly be audible unless the following vowel is whispered only, instead of being intonated, or unless between it and the click a little emission of unintonated breath be suffered to intervene); but it is equally possible to substitute for the click a very slight open breathing, an infinitesimal h; and not less so, again, to commence the vowel without any prefix whatever which the nicest ear can remark. Why should it be necessary to close the throat as a preliminary to articulate speech? cannot one pass in the very midst of a breath from simple breathing to intonation and articulation? and are the vocal cords so sluggishly obedient to the will, that their approach to the vibratory position and the expulsion of the breath in the effort of speaking may not be made truly simultaneous? We can credit either of these things only when our own mouth bears witness to our own ears of their truth; and this we have been thus far unable to make it do. Our author assumes that this consonant comes in whereever we suppose ourselves to be pronouncing two vowels in succession, but uncombined, as in "the English go 'over." This is the same thing as to say that it is identical with the hiatus: but, if we can trust our own organs, this is a case where the closing

and reopening of the throat would not take place, but, instead of it, merely an instant of silence, an actual hiatus of sound. We can hardly believe that the use of the spiritus lenis by the Greeks was owing to their having noticed, and desiring to represent, the sound which our author defines: in our view, it was employed rather by way of antithesis to the spiritus asper: just as we, sometimes, for more marked distinction from a negative quantity, write a positive quantity with a plus sign, setting +1, instead of simply 1, over against -1. The use of the Semitic aleph is sufficiently explained by the syllabic character of the alphabet, and does not necessarily imply any recognition of the smooth breathing as a member of the spoken system of sounds. Our author even sets down the Sanscrit # as representing this breathing; but we do not understand upon what ground; for the sign stands distinctly for a, and for nothing else; and we are not aware that the Hindu grammarians themselves-acute and hair-splitting as they were in catching and noting the finest shades of sound, and much as they would have been delighted with, and have made the most of, just such a nicety as thisever took any notice of a smooth breathing. It has not, to our apprehension, any claim to be recognized as a distinct element in the spoken system, and as requiring a sign for its representation.

Of that most difficult and puzzling sound, the Semitic ain (Ar. ε , Heb. \mathfrak{I}), which is the third in our author's faucal class, we shall not venture to speak, as we must confess ourselves unable either to utter or to describe it. So much as this we seem to see, that the definition given by Prof. Lepsius is not entirely satisfactory. He makes it a "hard" sound, corresponding to the spiritus lenis as "soft." According to the general meaning of the terms hard and soft, as used by our author, this would signify that the spiritus lenis was sonant, and this its corresponding surd—which is, of course, impossible. If, on the other hand, it mean that the ain is produced by an actually more violent and audible unclosing of the throat before a vowel, we do not see how this is to be brought into accordance with the descriptions of it given by the grammars.

The Semitic strong h (Ar. τ . Heb. τ), our author's fourth faucal, has more claim to the title, probably, than any of the others, as an h which, instead of being left in the condition of uncharacterized breath, is, by some degree of approach at the deep guttural point, made slightly fricative, although not to the degree of the χ -sound, with which it is most nearly allied in

character.*

^{*} See the article of Prof. Lepsius on the Arabic, p. 127 etc., for a reexamination and more careful description, of the "faucal" sounds.

We have thus gone over nearly the whole of our author's system, turning our chief attention, as was natural, to those points in which we could not agree with him, and making our criticisms upon them with entire freedom, while at the same time cherishing the highest respect for the work as a whole, and deeming it in many important regards superior to any other of the kind with which we are acquainted. In no other, to our seeming, are learning and practical good sense-the want of either of which is equally fatal to the success of such a work as is here undertaken—united in the same degree. With Prof. Lepsius's view of the general method in which the standard alphabet is to be constructed we are fully agreed; it is to be by the employment of the Latin alphabet to the farthest possible extent, and by the application of diacritical signs to the most suitable bases to fill up its deficiencies; rather than, as some have proposed, by the introduction of italics and capitals among the ordinary "roman" letters; or, according to the method of others, by turning letters topsy-turvy or wrong side before, by cutting away parts of characters, manufacturing arbitrary signs for sounds, and the like, forming compounds even more offensive to the eye than that artificial and incongruous polyourri of characters, the Russian alphabet. As has been seen above. we only wish that he had gone yet farther in the carrying out of this principle, doing without Greek characters altogether, and pressing into active service the three anomalous letters c, j, and x, as well as q. We heartily approve, also, of Prof. Lepsius's moderation in the distinction of sounds and the setting up of signs for them. To compose a complete universal alphabet, offering a sign for every shade of sound which human lips utter, however slightly differentiated, and requiring the use of that sign for that sound in all cases without exception, forms no part of his plan. Even if the execution of such a work be allowed to be possible, the resulting alphabet would be lifted far out of the domain of practical availability, in which our author desires it to rest. The varieties of possible pronunciation are well-nigh infinite, and the signs of a general alphabet must be allowed to cover and designate each a certain territory, as we may call it, of articulation, rather than a single point. It might be laid down as a general rule, that no two modes of pronunciation of a sound require to be distinguished by separate signs, unless they may and do coexist as independent sounds in the same spoken system. Thus, for instance, notwithstanding the difference in mode of pronunciation between the English and the German f and v(w), they are not to be regarded as demanding different signs: it must belong to the description of the methods of utterance of each language to point out their distinction. And yet farther. if a language were found to lack the more usual and normal

pronunciation of a letter or a series of letters, and to substitute for it one of those modes of utterance which are indicated in the general alphabet by a diacritical mark, it would yet be superfluous to use, in writing that language, the diacritical point. If, for example—for no actual instance now occurs to us—the Arabic had no t, d, s, z but غرص, ص, ط, which are written in our author's system with the underscored line, it would be proper, in transcribing the language, to use for them the simple lingual letters, it being left for description to explain their peculiarity of utterance. Careful and detailed description must necessarily accompany any and every application of an alphabet to a new language, and even when that has done its utmost, there will remain much which only oral instruction can impart, much that cannot be learned but by long practice and familiar usage, and probably even much that can never be perfectly acquired by

one to whom the language is not native.

It is evident that adherence to a uniform standard of orthography is not in all cases to the same degree requisite and necessary. The adoption of one alphabetic system throughout is most to be insisted upon where independent laborers are reducing to writing, for practical use, the same or nearly kindred idioms. Here, a diversity of characters employed leads to a confusion of which the consequences may be long and keenly Where languages are quite independent of one another, minor inconsistencies in the mode of writing them are of comparatively small account, since, in the acquisition of a new language, whether for practical or scientific purposes, its phonetic and orthographic systems must receive an amount of attention and study in which such little incongruities will almost entirely disappear. In isolated articles, essays, and treatises, in the making up of empirical alphabets for collectors of vocabularies, and the like, greater freedom may very properly be allowed: convenience of writing and printing, conformity with the previous usages of those for whose information or practical employment the alphabet is devised, leading to its greater intelligibility, or accuracy of application—these and other like considerations rise to an importance which authorizes and justifies deviation from strict theory. It may be well here to review and classify the Standard Alphabet in a summary manner, with reference to the greater or less authority and availability of its signs.

First, as regards the vowels. Here the most important and imperative rule is, that the five vowel sounds of almost universal occurrence, illustrated by the English words far, prey, pique, note, rule, should be written by the characters a, e, i, o, u, which originally and properly belong to them, and by no other; in other words, that the vowels should receive the "Italian" sound. No alphabet, under any circumstances whatever, is to be toler-

ated, if it neglect this rule. The same rule implies and requires that the diphthongal sound which we call "long i" (as in pine, aisle, buy) should be represented by the digraph ai, and the diphthong ou (as in house, how) by au. It is much less easy to lay down peremptory rules for the other five vowel sounds which most frequently call for representation. But the vowels of double position, the German \ddot{u} (French u) and \ddot{o} (French eu), can hardly be better written than with the two dots, either above or below, and we should think that a virtual unanimity as regards them might be pretty easily established. The neutral vowel (in English but, burn) will occasion much greater difficulty, and probably no sign can be suggested for it which will not encounter strong opposition in many quarters. Our author's proposal will seem a strange one to most of those who come to it from English usages, and we have ourselves not been able to assent to it without some misgivings: but we have had nothing preferable to suggest, unless to transfer the diacritical point from e to a, writing a. The vowels intermediate between a and e and a and o respectively, represented in the English words cat and call, are also hard subjects for unanimity of treatment: and the more so, as they vary more in quality, in different languages, than the others. As said above, we should be very willing to see our author's signs generally adopted as their representatives. the sign of long quantity, our author, with entire reason, prefers the horizontal line above the vowel (thus, \bar{a}): the circumflex (a) is also available for this purpose: but the use of the acute accent (á) to denote the length of a vowel, which has most unfortunately become very prevalent among the English, is con-trary to all analogy, and unsupported by any consideration of fitness, convenience, or neatness of appearance, and it ought to be summarily suppressed. The only customary and available sign of short quantity is the concave line above the vowel (a). Whether it be necessary or desirable to distinguish long and short quantity in writing must be determined for each language by itself: it can hardly ever be advisable, we should think, to employ the diacritical marks of both classes in the same system. To indicate the nasalization of a vowel, by the expulsion through the nose of part of the breath by which it is uttered, Prof. Lepsius employs the Greek circumflex above it (as \tilde{u} , \tilde{o} , \tilde{u}), a very suitable sign: where this is for practical reasons not available, a postposed superior n (as a^n , o^n , u^n) is a very good substitute.

Secondly, as regards the consonants. We feel confident that almost no one to whom English is native will find any difficulty in assenting to our author's adoption of the signs k, g, t, d, p, b, f, v, s, z, h, m, n, y, w, r, l to represent the values which those letters have in the English words kick, gig, tit, did, pap, bib, fife, valve, sauce, zeal, hat, mum, nun, ye, woo, rare, lull: and the larger

and more important part of the consonantal system is thus disposed of at a blow. Of the remaining members of the system, those which most press for uniformity of representation, being of widest occurrence, are the palatal nasal and sibilants, the English ng in singing, sh in she, and z in azure. With our views of the connected nature of these sounds, we should prefer to see them distinguished from the lingual n, s, z by the same diacritical sign, a dot or an accent; yet this is not a point which needs to be pressed, and, as above remarked, we should have no difficulty in accepting our author's proposals. Next in consequence are the lingual spirants, the English th in thin and in this. To those who are unwilling to adopt our author's θ and δ , the linguals with affixed rough breathing—as t, d'-might seem natural and convenient substitutes: evidently, if a t is made the basis of the surd sound, a d should be that of the sonant. So also with the palatal spirants: if x and γ be rejected, and if xbe deemed inadmissible, a k' and a g' would not be unsuited to take their places. The compounds ch and j, most accurately represented by the prefixion of a diacritically distinguished t and d to the signs adopted for the palatal sibilants sh and zh, may have the discritical distinction omitted, as by our author, or they may, as exceptional cases, be written by c and j.

Although the use of compounds with h to represent simple sounds is a violation of strict theory, and discordant with the rules by which it is desirable to be governed in the construction of an alphabet, yet there may be cases where practical considerations shall justify the employment of the whole series of such

compounds, sh, zh, th, dh, kh, gh, ch.

Cases beyond these will be of so exceptional and isolated occurrence that they may, with less danger of serious inconvenience, be left to the good judgment and enlightened insight of those who are called upon to construct alphabetic systems for practical use. No slight responsibility, however, rests upon him who first puts into written characters a virgin tongue, since it is impossible to say of how many individuals and generations the convenience depends upon his work. There can be no better preparation for this than a thorough physical comprehension of the sounds of one's own native speech, and a correct understanding of the history of the signs with which it is written; and a searching and intelligible analysis of the English spoken alphabet must be the most valuable phonetical assistant to any one who, having the English for his mother tongue, is required to study the phonetic system of another language, whether for description or for reduction to a written form.

ARTICLE VIII.

THE ATHARVA-VEDA PRÂTIÇÂKHYA,

OR

ÇÂUNAKÎYÂ CATURÂDHYÂYIKÂ:

TEXT, TRANSLATION, AND NOTES.

BY WILLIAM D. WHITNEY, PROFESSOR OF SANSKRIT IN YALE COLLEGE.

Presented to the Society May 21st, 1862.

INTRODUCTORY NOTE.

THE distinctive title of the work here published is Caunakiya caturådhyåyikå, 'Caunaka's Treatise in Four Chapters.' We have for it, however, only the authority of the signatures to the different portions of the manuscript containing the treatise; no reference to the latter by name has yet been discovered, so far as I am aware, in any other work of the Sanskrit literature. As regards the gender of the word, whether feminine or neuter, there is some question. In the signature to the first section (pada) of the first chapter (adhyaya), it is styled caturadhyayika, as also at the close of the first chapter. With this accords, farther, the name, caturâdhyâyî-bhâshya, given to the commentary in the signature of chapter IV, section 1, and at the close of the whole work. The neuter form, and the ascription to Caunaka, are found only in the final signature, which reads as follows (unamended): iti çâunakîyaincaturâdhyayike caturthah padah: caturadhyayibhashya samaptah.* The treatise was first brought to light, and its character determined, by Roth (see the Preface to his Nirukta, p. xlvii). It was recognized by him as being what is indicated by our title, a Praticakhya to a text of the Atharva-Veda. That it has any inherent right to be called the Praticakhva to the Atharva-Veda is not, of course, claimed for it; but, considering the extreme improbability that any other like phonetic treatise. belonging to any of the other schools of that Veda, will ever be brought to light, the title of Atharva-Veda Prâtiçâkhya finds a sufficient justification in its convenience, and in its analogy with the names given to the

^{*} Weber (Cat. Berl. MSS., p. 87; Ind. Literaturgeschichte, p. 146) calls the treatise caturadhyāyikā; and Müller (Hist. Anc. Sansk. Lit., p. 135, etc.) styles it cāturadhyāyikā—each by a different emendation of the name given in the manuscript: I do not see the necessity of departing from the authority of the latter.

other kindred treatises by their respective editors, Regnier, Weber, and Müller.* Any special investigation of the questions of the anthorship and date of our treatise, its relation to the other Prâtiçâkhyas and to the present received text of the Atharva-Veda, and the like, is reserved for the commentary and the additional notes: it will be sufficient to say here, in a general way, that it concerns itself with that part of the Atharvan text which is comprised in its first eighteen books, and with that alone, and that it covers the whole ground which the comparison of the other treatises shows us to be necessary to the completeness of a Prâtiçâkhya, differing from any of them not more than they differ from one another.

The manuscript authority upon which the present edition is founded is a single codex (Chambers collection, No. 143; Weber, No. 361), belonging to the Royal Library of Berlin, a copy of which was made by me in the winter of 1852-3; it contains, besides the text of the Pratiçâkhya, a commentary upon it, by an author not named, which styles itself simply caturadhyayî-bhashya, 'Commentary to the Four-chaptered Treatise, as already noticed above. It is briefly described in Weber's Catalogue of the Berlin Sanskrit Manuscripts (p. 87-8). The signature at the end is as follows (with one or two obvious emendations): crir astu: lekhakapathakayoh cubham bhavatu: cricandikayai namah: criramah: samvat 1714 varshe jyaishthaguddha 9 dine samaptalikhitam pustakam. The date corresponds to May, 1656; but it must, as in many other cases, be doubtful whether this is the date of the manuscript in our possession, or of the one from which this was copied; in the present instance, the latter supposition may be regarded as decidedly the more probable. Most unfortunately, considering the extreme rarity of the work, the manuscript is a very poor one. Not only is it every where excessively incorrect, often beyond the possibility of successful emendation; it is also defective, exhibiting lacunae at several points. Some may be of opinion, then, that the publication of the Prâtiçakhya upon its anthority alone is premature, and should not have been undertaken. This would certainly be the case, were any other copies of the work known to be in existence: to neglect to procure their collation before proceeding to publish would be altogether inexcusable. far as is hitherto known, the Berlin codex is unique. No public or private library in Europe, nor any in India accessible to Europeans, has been shown to possess a duplicate of it. For assistance in procuring a second copy, I made application some years since to Prof. Fitz-Edward Hall, then of Benares, whose knowledge, experience, and public and private position made him the person of all others most likely to be of service in such a way; and he was kind enough to interest himself zealously in my behalf in searching for the work: but entirely without success; while he collected for me a mass of valuable materials respecting

^{*} Prâtiçâkhya du Rıg-Véda. Par M. Ad. Regnier, etc. Published in the Journal Asiatique, Ve série, Tomes vii-xii, Paris. 1856-58.—Das Vâjasaneyi-Prâtiçâkhyam. Published by Prof. Albrecht Weber, in his Indische Studien, Vol. iv, Berlin, 1858.—Müller's edition of the Rig-Veda Prâtiçâkhya ircludes only the first six chapters, one third of the whole, and forms part of his text-edition of the Rig-Veda itself, which also remains a fragment.

the other Praticakhyas, for that of the Atharva-Veda nothing could be Considering, then, the faintness of the hope that additional manuscripts would later be obtainable, and considering the peculiar interest of this class of works-well attested by the triple publications, within a few years past, of Regnier, Weber, and Müller-and the desirableness of placing as speedily as possible before the eyes of scholars the whole material furnished by them, in order to the greater force and conclusiveness of the results which some are already hastening to draw from them for the literary history of India, it has seemed best to publish the treatise without farther delay. Several circumstances deserve to be noted as supporting this decision, by diminishing the disadvantages arising from the scantiness and poorness of the manuscript material. In the first place, as regards the lacunae, they are, with two exceptions, of insignificant importance, and do not either cause the loss of a rule or render its interpretation doubtful: while, in the two instances (both occurring in chapter III) in which one or more rules are lost, the loss at least lies within the limits of a certain definite subject, and, though much to be regretted, is of no great extent or essential consequence. As concerns, again, the corruption of the readings, it is to be observed that the commentary is generally full enough to establish the true version of the rnles, and yet, at the same time, too poor and scanty to render its own restoration important. The general method of the commentator is as follows: he first states the rule, then restates it in the baldest possible paraphrase, merely supplying the lacking copula, and adding the specifications, if any, of which the presence is inferrible from previous rules; next follow the illustrative citations; and finally, the rule is given once more, along with the one next following, which is enphonically combined with it, and of which the paraphrase and illustration then follow in their turn. As an example, I cite here in full rule i. 7, with its commentary, beginning from the final repetition of the next preceding rule:

स्पर्भाः प्रथमोन्नमा न चर्काः। न चर्काः पद्मो भवति । चङ्गतकाः। न चर्काः प्रथ-मान्तानि तृती॰

Thus we have everywhere (unless, as is sometimes the case, a few words have dropped out from the copy) a threefold repetition of each rule, and its true form is almost always restorable from their comparison, notwithstanding the corruptions of the manuscript. If, now, the commentary were as full and elaborate as those of the other known Pratiçakhyas, it would have been alike trying and unsatisfactory either to endeavor to edit it, or to disregard it: while, as the case actually stands, it has itself attempted so little that we care comparatively little to know precisely what it says. Wherever its usual meagre method is followed, accordingly, little attention will be found paid to it in the notes. Nor has it seemed to me otherwise than a needless labor to notice, except in special cases, the corrupt readings of the manuscript—and this the more especially, as my distance from the original renders it impossible to test by a renewed collation the accuracy of my copy.*

^{*} Prof. Weber has had the kindness to verify for me, during the progress of publication, sundry passages, of special importance or of doubtful reading, which I took the liberty of submitting to him.

The citations from the Atharvan text are also given in their correct form, without farther remark; since, whatever the disguise under which the manuscript may present them, it has generally been not difficult for one familiar with the Atharvan, and in possession of a verbal index to its text, to trace them out and restore their true readings. There are a few notable instances in which the commentator abandons his customary reticence, and dispreads himself upon the subject with which he is dealing: and in such cases the attempt is made to follow him as closely as the manuscript will allow. Much more frequently than he ventures to speak in his own person, he cites the dicta of other authorities; occasionally referring to them by name; more often introducing his quotations by a simple apara aha, 'another has said;' and very frequently making extracts without any introduction whatever, as if of matter which might lawfully be woven in as an integral part of his own comment. The work, if it be a single work, from which these anonymous citations are made, is written in the common cloka, and is seemingly of the same general character with our treatise itself, or a kind of metrical Praticakhya to the Atharva-Veda; wearing, however, more the aspect of a commentary than does the metrical Praticakhya to the Rig-Veda.

What has here been said of the commentary applies only to that part of it which ends with the third section of the fourth chapter: the concluding section, on the krama-pāṭha, is of an entirely different char-

acter, as will be explained at the place.

While thus but imperfectly aided by the native commentator, I have enjoyed one compensating advantage over those who have undertaken hitherto the publication of works of this class, in that I have been able to avail myself of the results of their labors. Had it not been for their efficient help, much in the present treatise might have remained obscure, of which the explanation has now been satisfactorily made ont; and I desire here to make a general acknowledgment of my indebtedness to them, which I shall have occasion to repeat hereafter in particular cases. I have thought it incumbent upon me to refer, under every rule, or in connection with every subject treated of, in the work here published, to the corresponding portions of the other Prâticakhyas, giving a bricfer or more detailed statement of the harmonies and discrepancies of doctrine which they contain. To the Rig-Veda Prâtiçâkhya reference is made primarily by chapter (patala) and verse (cloku),* the number of the rule cited being then also added, according to the enumeration of both Regnier and Müller; the latter (in the first six chapters only) in Roman figures, the former in Arabic. The Vajasanevi Praticakhva is cited from Weber's edition, already referred to, and according to his enumeration of its rules. For my ability to include in the conspectus of phonetic doctrines the Taittirîya Prâtiçâkhya of Kârttikeya, I have to thank Prof. Hall, as above acknowledged; the excellent manuscripts of the text and of the text and commentary (tribhashyaratna) which he procured for me will be made, I trust, to help the publication of that

^{*} In the first chapter, of which the verses are numbered differently by Müller and Regnier, the former counting in the ten prefixed introductory verses, the reference is according to Regnier: to find the corresponding verse in Müller, add ten to the number given.

treatise in the conrsc of the next year, either by myself or by some one else. The mode of reference to the Tâittirîya Prâticâkhya which has hitherto been usual I have ahandoned. The work is divided into twenty-four chapters (adhyaya), which are classed together in two sections (pragna), each of twelve chapters: and Roth—as also Weber, following his example—has cited it by section and chapter, omitting any enumeration and specification of the rules into which each chapter is divided. But the pragna division is of as little account as the corresponding division of the Rik Pratiçakhya into three sections (adhyaya); and there appears to be no good reason why this treatise should not he cited, like those pertaining to the Rik, the White Yajus, and the Atharvan, by chapter and rule simply; as I have done. To Pânini's grammar (in Böhtlingk's edition) reference is also frequently made—in all cases, it is hoped, where the comparison would be of any particular interest. The special relation exhibited by our treatise in many points to the system of general grammar whereof Panini is the authoritative exponent would perhaps have justified a more detailed comparison; but I have both feared to be led too far, and distrusted my ability to draw out the correspondences of the two in a perfectly satisfactory manner. To determine in full the relations of Panini and the Praticakhyas, when the latter shall have been all made public, will be an important and a highly repaying task for some one more versed than I am in the intricacies of the Paninean system.

The peculiar method, so commonly adopted in our treatise (e.g. i. 64, 65, 85), of applying a rule to the series of passages or words to which it refers, by mentioning only one of them and including the rest in an "etc." (adi) which is to be filled out elsewhere—or the familiarly known gana-method of Panini—and the remissness of the commentator, whose duty it was to fill out the ganas, but who has almost always failed to do so, have rendered necessary on the part of the editor a more careful examination of the Atharvan text, and comparison of it with the Praticakhya, than has been called for or attempted in connection with any other of the kindred treatises. It has been necessary to construct, as it were, an independent Praticakhya upon the text, and to compare it with that one which has been handed down to us by the Hindu tradition, in order to test the completeness of the latter, fill up its deficiencies, and note its redundancies. The results of the comparison, as scattered through the notes upon the rules, will be summed up in the additional notes, to which are also relegated other matters which would otherwise call for attention in this introduction. In examining and excerpting the text, full account has been taken of the ninetcenth book, and of those parts of the twentieth which are not extracted bodily and without variation from the Rig-Veda. References are made, of course, to the published text of the Atharva-Veda;* if a phrase or word occurs more than once in the text, the first instance of its occurrence is given, with an "e. g." prefixed.

Readings of the manuscript which it is thought desirable to give are generally referred hy numbers to the bottom of the page.

^{*} Atharva-Veda Sanhitâ, herausgegeben von R. Roth und W. D. Whitney. Erster Band. Text. Berlin, 1856. roy. 8vo.

The occurrence, here and there in the notes, of emendations of the published text of the Atharvan calls for a few words of explanation here. The work of constructing the text was, by the compelling force of circumstances, so divided between the two editors that the collation of the manuscripts, the writing out of a text, and the preparation of a critical apparatus, fell to myself, while Prof. Roth undertook the final revision of the text, and the carrying of it through the press after my return to this country. Such being the case, and free communication being impossible, occasional misconceptions and errors could not well be avoided. Moreover, the condition of the Atharvan as handed down by the tradition was such as to impose noon the editors as a duty what in the case of any of the other Vedas would have been an almost inexcusable liberty-namely, the emendation of the text-readings in many places. In so treating such a text, it is not easy to hit the precise mean between too much and too little; and while most of the alterations made were palpably and imperatively called for, and while many others would have to be made in translating, there are also a few cases in which a closer adherence to the manuscript authorities might have been preferable. Farther, in the matter of modes of orthography, where the usage of the mannscripts was varying and inconsistent, our choice was not always such as more mature study and reflection justify. Whenever cases of any of these kinds are brought up in connection with the rules and illustrations of the Prâtiçâkhya, I am free to snggest what appears to me a preferable reading or usage. In referring to the manuscripts of the Atharvan, I make use of the following abbreviations (which are also those employed in the margin of the edited text, in books xix and xx): 1st, sanhità MSS.: "B." is the Berlin MS. (Ch. 115, Weber 338), containing books xi-xx; "P." is the Paris MS. (D. 204, 205), and contains the whole text, and books vii-x repeated; "M." and "W." are manuscripts of the Bodleian library at Oxford, M. in the Mill collection, and W. in the Wilson: M. is a copy of the same original, by the same hand, and in the same form, as P., and it lacks the part of the text which is found double in the other: W. lacks book xviii; "E." is the East India House mannscript, Nos. 682 and 760; "H." is in the same library, No. 1137, and contains only books i-vi; "I." is the Polier MS., in the British Museum: a copy made from it for Col. Martin is also to be found in the East India House library, Nos. (I believe) 901 and 2142. 2nd, pada These are all in the Berlin library. "Bp." is Ch. 8 (Weber 332) for books i-ix, and Ch. 108 (Weber 335) for books x-xviii: these are two independent manuscripts, but are included under one designation for convenience's sake, as complementing one another. "Bp.2" is Ch. 117 (Weber 331) for book i, and Ch. 109, 107 (Weber 333, 334) for book v, and books vi-ix: the two latter are accidentally separated parts of the same manuscript, and stand also in very close relationship, as respects their original, with Bp. (Ch. 8): the other is independent. Of book xix there is no pada-text to be found, and probably none was ever in existence: and the pada MSS. of book xx are only extracts from the Rik pada-text.

The mode of transcription of Sanskrit words is the same with that

which has been hitherto followed in this Journal.

ATHARVA-VEDA PRÂTIÇÂKHYA.

CHAPTER I.

CONTENTS:—SECTION I. 1-2, introductory, scope of the treatise; 3-9, sounds which may occur as finals; 10-13, aspirates, nasals, surds, and sonants; 14-17, description of accents; 18-28, description and classification of sounds according to their place and organ of production; 29-36, do. according to the degree of approximation of the organs; 37-39, the r and l vowels; 40-41, diphthongs.

SECTION II. 42, visarjaniya; 43-48, abhinidhána; 49-50, conjunction of consonants; 51-54, quantity of syllables; 55-58, division into syllables; 59-62,

quantity of vowels.

SECTION III. 63-66, abnormal alterations and interchanges of sounds; 67-72, occurrence of nasalized vowels; 73-81, pragrhya vowels; 82, treatment in padatext of pragrhya vowels followed by iva; 83-91, occurrence of long nasalized vowels in the interior of a word.

SECTION IV. 92, definition of upadhá; 93, what makes a syllable; 94, only an unaspirated consonant allowed before an aspirated; 95, mode of application of rules respecting conversion of sounds; 96, special case of accent; 97, special cases of omission of pluti before iti; 98, conjunction of consonants; 99, yama; 100, ndsikya; 101-104, svarabhakti and sphotana and their effect; 105, cases of pluti.

चतुर्णां पद्ञातानां नामाख्यातोपसर्गनिपातानां सन्ध्य-पद्मी गुणौ प्रातिज्ञम् ॥१॥

1. Of the four kinds of words—viz. noun, verb, preposition, and particle—the qualities exhibited in euphonic combination and in the state of disconnected vocables are here made the subject of treatment.

Here is clearly set forth the main object of such a treatise as we are accustomed to call a praticakhya: it is to establish the relations of the combined and the disjoined forms of the text to which it belongs, or of the sanhita-text and the pada-text: sandhyapadyau might have been directly translated 'in the sanhita and pada texts respectively.' The ultimate end to be attained is the utterance of the sacred text (cakha, 'branch' of the Veda), held and taught by the school, in precisely the form in which the school receives and teaches it. The general material of the text must, of course, be assumed to be known, before it can be made the subject of rules: it is accordingly assumed in its simplest and most material-like form, in the state of padas or separate words, each

having the form it would wear if uttered alone, compounds being also divided into their constituent parts, and many affixes and inflectional endings separated from their themes; and the Praticakhya teaches how to put together correctly this analyzed text. An essential part of such a treatise is also its analysis, description, and classification of the sounds of the spoken alphabet, as leading to correctness of utterance, and as underlying and explaining the complicated system of phonetic changes which the treatise has to inculcate. These two subjects—a theoretical system of phonetics, and the rules, general and particular, by which pada-text is converted into sanhita—are the only ones which are found to be fully treated in all the Praticakhyas; although none of the treatises confines itself to them alone. Thus, our own work gives in its fourth chapter the rules for the construction of the pada-text itself, as does also the Våjasaneyi Pråtiçakhya; and likewise, in the final section of that chapter (which is, however, evidently a later appendix to the work), a brief statement of the method of forming the krama-text, of which it has also taken account in more than one of the rules of its earlier portions: and the Praticakhyas of the Rik and the Vâjasaneyi have corresponding sections. Nor are the instances infrequent in which it more or less arbitrarily oversteps the limits it has marked out for itself, and deals with matters which lie properly beyond its scope, as will be pointed out in the notes. A summary exhibition of these irregularities, and a comparative analysis of the other Prâticakhyas, will be presented in an additional note.

As the Pratiçakhya deals with words chiefly as phonetic combinations, and not as significant parts of speech (as Wörter, 'vocables,' not Worte, 'words'), their grammatical character is unessential, and the distinction of the four classes made in the rule is rather gratuitous: the names of the classes do not often occur in the sequel, although our treatise is notably more free than any other of its class in availing itself of grammatical distinctions in the statement of its rules. For a fuller exhibition of the fourfold classification of words as parts of speech, see Rik Pr. xii. 5-9, and Vaj. Pr. viii. 52-57.

In illustration of the term sandhya, the commentator says: "words that end thus and thus take such and such forms before words that begin so and so." To illustrate padya, he cites rule 8, below-a by no means well-chosen example. To show how it is that the treatise has to do only with the qualities of words as exhibited in sanhita and pada, he cites an instance of what must be done by a general grammarian in explanation of a derivative form, as follows: sandhyapadyav iti kim artham: lidham ity atra ho-dha-tvam: paracaturthatvam: (MS. padaca°) shtuna-shtu-tvam : dho-dhe-lopo dîryhatvam iti vaiyakaranena vaktavyam: 'why is it said "the qualities in sanhita and pada"? Because the general grammarian must say, in explanation of lidha, "here applies the rule ho dhah (Pan. viii. 2. 31), that for the change of the following letter into its aspirated sonant, the rule shtuna shtuh (Pan. viii. 4. 41), the rule dho dhe lopoh (Pân. viii. 3. 13), and that for the lengthening of the vowel." These rules teach the formation of the participle lidha from the root lih, through the following series of changes: lik-ta, lidh-ta, lidh-dha, lidh-dha, li-dha, lidha; and they are for the

most part taken directly from Pâṇini, or at least correspond precisely with his rules; only, in the second case, paracaturthatvam takes the place of Pâṇ. viii. 2. 40, jhashas tathor dho 'dhah; and, in the last case, dirghatvam stands for dhralope pûrvasya dirgho 'nah (Pâṇ. vi. 3. 111). Whether the commentator thus deviates arbitrarily or through carelessness from the letter of the great grammarian's rules, or whether he cites from some other authority, anterior to or independent of Pâṇini, and with whom the latter agrees only in part, is a question of which the solution need not be attempted here: while the former supposition may appear the more probahle, the other, in the present state of our knowledge respecting the relations between Pâṇini and the Prâtiçâkhyas and their commentators, is not to be summarily rejected as impossible.

एवमिकेति च विभाषाप्राप्तं सामान्ये ॥२॥

2. Farther, that respecting which general grammar allows diversity of usage is made subject of treatment, to the effect of determining the usage in this câkhâ.

This is a broadly periphrastic translation of the rule, which reads more literally: "thus and thus it is here"—to this effect, also, that which is allowed to be diversely treated in the general language (is made the subject of the rules of the treatise).' The commentator's exposition is as follows: evam iha iti ca: asyam çâkhûyâm tat prâtijñam manyante. yaro 'nunåsike 'nunåsiko ve 'ti vibhashapraptam samanye: kim samanyam: vyakaranam: vakshyati: uttama uttameshv iti: "thus it is here:" in these words also: i. e., in this cakha they regard this as matter of precept: by the rule (Pan. viii. 4. 45) "the letters from y to s may or may not be made nasal before a nasal," a choice of usage is allowed in general grammar-sâmânya mcans vyâkarana, 'grammar'but the Praticakhya is going to say (ii. 5) "mutes other than nasals become nasals before nasals."' The rule is somewhat obscure and difficult of construction, and the commentary not unequivocal, substituting, as before, an illustration in place of a real exposition of its meaning, but I am persuaded that it is fairly rendered by the translation above given. Müller, having occasion to refer to it, gives it somewhat differently, as follows (p. xii): "what by the grammatical text books is left free, that is here thus and thus: so says the Prâticakhya." But this leaves the ca unexplained, and supposes the iti to be in another place, making the rule to read rather evam iha vibhashapraptam samanya iti: nor does it accord with the commentator's exposition. It seems necessary, in order to account for the ca, to bring down prâtijnam as general predicate from the preceding rule; and the iti must be understood as pointing out that the Prâticakhya says evam iha, 'so and so is proper here,' respecting any matter which the rules of grammar leave doubtful.

The rule is properly neither an addition to, nor a limitation of, the one which precedes it, but rather a specification of a particularly important matter among those included in the other; for the Praticakhya does not overstep the limits of its subject as already laid down, in order to determine points of derivation, form, etc., which general grammar

may have left nnsettled; nor does it restrict itself within those limits to matters respecting which general nsage is allowed to vary: it does not at all imply or base itself upon the general science of grammar and its text book, but is an independent and a complete treatise as regards

its own subject.

Of which $fdkh\hat{a}$ of the Atharva-Veda this work is the Prâticâkhya, it gives no itself no information whatever, nor does it even let no know that it belongs to the Atharvan. The name by which it is called, however, leads us to suppose that it was produced in the school of the Caunakâs, which is mentioned in the Caranavytha among those of the Atharvan (see Weber's Indische Studien, iii. 277-8). Its relation to the only text of the Atharvan known to be now in existence will be made the subject of an additional note.

पदान्यः पद्यः॥३॥

3. A letter capable of occurring at the end of a word is called padya.

This is simply a definition of the term padya, which, in this sense, is peculiar to the present treatise; it is not found at all in either of the Yajur-Veda Pratiçakhyas, or in Paṇini, and in the Rik Pratiçakhya it means 'member of a compound word.' The term signifies, by its etymology, 'belonging to a pada, or disjoined word' (in the technical sense), and it is evidently applied specifically to the last letter of such a word as being the one which is most especially affected by the resolution of sanhita into pada.

As instances, the commentary cites a series of four words, ending respectively in guttural, lingual, dental, and labial mutes, which he gives also repeatedly under other rules; viz. godhuk (p. go-dhuk: e. g. vii. 73. 6), virât (p. vi-rât: e. g. viii. 9. 8), drshat (ii. 31. 1), trishtup (p. tri-stup: e. g. viii. 9. 20).

ग्रनुकारः स्वरः पद्यः॥४॥

4. Any vowel, excepting l, may occur as final.

The Rik Praticakhya treats of possible final letters in xii. 1, and excepts the long ?-vowel, as well as l, from their number. The latter is also excluded by the introductory verse 9 to the first chapter, as given by Müller (p. x). The Vajasaneyi Praticakhya also pays attention to the same subject, in i. 85–89, and its rule respecting the vowels (i. 87) precisely agrees with ours. It farther specifies, however (i. 88), that r is found only at the end of the first member of a compound, which is equally true as regards the Atharvan text.

The illustrations brought forward by the commentator are brahma (e. g. i. 19. 4), sâlâ (ix. 3. 17), nîlâ (not found in AV.), dadhi (in dadhi-vân, xviii. 4. 17), kumârî (x. 8. 27), madhu (e. g. i. 34. 2), vâyû (only in indravâyû, iii. 20. 6), kartr (no such case in AV., nor any case of this word as member of a compound: take instead pitr-bhih, e. g. vi. 63. 3; pitr-lokam, xviii. 4. 64), cakshate (e. g. ix. 10. 26), asyâi (e. g.

ii. 36. 1), vâyo (e. g. ii. 20. 1), tâu (e. g. iii. 24. 7).

लकार्विसर्जनीयौ च ॥५॥

5. Also l and visarjanîya.

The instances given by the commentator are $b\hat{a}l$ (e. g. i. 3. 1), and vrkshah (e. g. iv. 7. 5). The word $b\hat{a}l$, an onomatopoetic exclamation, is the only one in the Atharvan ending in l—excepting the similar words gal and ghal, in xx. 135. 2, 3, a part of the text of which our treatise takes no account. Both the other Praticakhyas (R. Pr. xii. 1; V. Pr. i. 86) omit l from the number of possible finals, no word in their texts, apparently, ending with it.

स्पर्शाः प्रथमोत्तमाः ॥६॥

6. Of the mutes, the first and last of each series.

That is to say, the unaspirated surds and the nasals, or k, t, t, p, and n, n, n, m; c and \bar{n} being excepted by the next following rule. In speaking of the mutes, our treatise follows the same method with that of the other Praticakhyas, calling the surd, the surd aspirate, the sonant, the sonant aspirate, and the nasal, of each series or varga, the "first," "second," "third," "fourth," and "last" of that series respectively. The

Vâj. Pr. alone also calls the nasal by the name "fifth."

The commentator gives no instances under this rule: they may be added, as follows: pratyak (e. g. iv. 18. 2), vashat (e. g. i. 11. 1), yat (e. g. i. 2. 3), tri-stup (e. g. viii. 9. 20); arvān (e. g. iii. 2. 3), brahman-vatīm (vi. 108. 2), asmān (e. g. i. 1. 4), teshām (e. g. ii. 1. 1). The guttural nasal, n, appears only as final of masculine nominatives singular of derivatives of the root aāc; the lingual, n, only in a few instances, at the end of the first member of a compound, where, by a specific rule (iv. 99), it is left in the pada in its sanhitā form (the Vāj. Pr. [i. 88] expressly notices this as true of its text): t is found almost only as euphonic substitute of a final c, j, sh, or ç (viţ-bhyah, iii. 3. 3: in the onomato poetic phat [iv. 18. 3], it doubtless stands for either sh or c; bat [xiii. 2. 29], the only other like case, is doubtful): k and p are also comparatively rare, and especially the latter.

The Vâj. Pr. (i. 85) gives the same rule, comprising with it also the one here next following. The Rik Pr. (xii. 1) forbids only to the aspirates a place as finals; but the phonetic rules of its fourth chapter imply the occurrence only of surds at the end of a word: see the note

to rule 8, below.

न चवर्गः ॥७॥

7. Excepting the palatal series.

The commentator mentions all the palatal mutes, c, ch, j, jh, \bar{n} , as excluded from the final position by this rule; but it properly applies only to c and \bar{n} , the others being disposed of already by rule 6. The Våj. Pr. (i. 85) specifies c and \bar{n} : the Rik Pr. (xii. 1) speaks, like our rule, of the whole class.

It does not belong to the Prâtiçâkhya, of course, to explain into what an original palatal is converted when it would occur as a final.

प्रथमात्तानि तृतीयात्तानीति शौनकस्य प्रतिज्ञानं न वृत्तिः॥६॥

8. That the words thus declared to end in first mutes end rather in thirds is Çâunaka's precept, but not authorized usage.

That is to say, Cannaka prescribes that those words which, as noted in rule 6 above, and as implied throughout the rest of the treatise, have for their final letters the unaspirated surd, must be pronounced with the nnaspirated sonant instead: but, although the sage to whom the treatise is ascribed, or from whom the school to which it belongs derives its name, is thus honored by the citation of his opinion, the binding authority of the latter is denied. With regard to the question whether a final mute is surd or sonant, opinions seem to have been somewhat divided among the Hindu grammarians. Panini (viii. 4.56) does not decide the point, but permits either pronnnciation. The Rik Pr. (i. 3, r. 15, 16, xvi, xvii) cites Gargya as holding the sonant atterance, and Cakatayana the snrd: it itself declares itself for neither, and at another place (xii. 1), as already noted, treats both surd and sonant as allowable: its phonetic rules, however (iv. 1), being constructed to apply only to the surd final. If the Rik Pr. were actually, as it claims to be, the work of Caunaka, the rule of our treatise now under consideration would lead us to expect it to favor unequivocally the sonant pronunciation. Vaj. Pr., as we have seen above (nnder r. 6), teaches the surd pronnn-The Taitt. Pr., liberal as it usually is in citing the varying opinions of the grammarians on controverted topics, takes no notice whatever of this point; but its rules (viii. 1 etc.), like those of all the other treatises, imply that the final mute, if not nasal, is surd.

It would seem from this that the sound which a sonant mute assumed when final in Sanskrit (for that an original surd, when final, should have tended to take on a sonant character is very hard to believe) wavered somewhat upon the limit between a surd and a sonant pronunciation: but that it verged decidedly upon the surd is indicated by the great preponderance of anthority upon that side, and by the unanimous

employment of the surd in the written literature.

In his exposition of this rule, the commentator first gives a bald paraphrase of it: prathamantani padani tritiyantani 'ti çaunakasya "caryasya pratijāanam bhavati: na tu vrttih; adding as instances the words already given (see under r. 3), godhuk, virāt, drshat, trishtup; he then, without any preface, cites two or three lines from his metrical authority, which need a good deal of emendation to be brought into a translatable shape, but of which the meaning appears to be nearly as follows: "mutes other than nasals, standing in pausa, are to be regarded as firsts: a word ending in a first may be considered as ending in a third, but must in no case be actually so read (compare Uvata to

R. Pr. iii. 8, r. 13, cc), owing to the non-exhibition of authoritative usage in its favor" (MS. måvasånånikån sparçan padyån [ådyån?] ananunåsikån: prathamån trtiyån [prathamåntam trtiyåntam?] vidyåt na tu pathet kva cit: vrtter ananudarçanåt).

ऋधिस्पर्शे च ॥१॥

Also adhisparçam.

The meaning and scope of this rule are exceedingly obscure, and the commentator so signally fails to throw any light upon it, that we can hardly help concluding that he did not understand it himself. His exposition, without any amendment, is as follows: adhisparça ca pratijñâ [jâdîn mâ'vasitân sparçân padyân anunâsikân : trtîyân çaunakamatât] nam bhavati : na nu vṛttiḥ : kim adhisparçâ nama : vakshyati : yakâramvakârayor leçavrttir adhisparçam çâkatâyanasya ... * I have to thank Prof. Weber for the highly probable suggestion, made in a private communication, that the words jadin to matat, or those enclosed in brackets, have strayed into the commentary, out of place; so that the true reading is adhisparçam ca pratijnanam bhavati: na tu vrttih: 'adhispurçam also is a dictum of Çâunaka, but not authoritative usage.' interpolated words form part of a verse, and are apparently identical or akin in signification with the verses cited under the preceding rule: 2 restatement of the same thing, in slightly different terms, and so, we may conclude, by a different authority. To explain what adhisparça means here, the commentator simply cites rule ii. 24, in which the same word occurs again: a rule which informs us of the opinion of Çâkatâyana, that final y and v, the result of euphonic processes, are not omitted altogether, but imperfectly uttered as regards the contact (adhisparcam), the tongue and lips, in their pronunciation, not making the partial contact (i. 30) which is characteristic of the semivowels. But how can the use of adhisparcam in that rule, as an adverb, give a hint of its meaning here, where it seems to be treated as a noun? Are we to understand that it is taken as the name of that peculiar utterance of y and v. and that our rule means to say that the mode of ntterance in question is also a teaching of Caunaka, but not authoritative? This is scarcely credible: it does not appear hereafter that Çâunaka had anything to do with that utterance, which is sufficiently put down by the positive rules of the treatise against it, nor would its mention here, in a passage treating of padyas, be otherwise than impertinent. Or is adhisparca to be interpreted as the name of a slighted or imperfect atterance, and did Câunaka teach such an utterance as belonging to a final mute, which wavered, as it were, between sonant and surd? This appears somewhat more plausible, but not sufficiently so to be accepted as at all satisfactory: there is no question of a difference of contact of the

^{*} Here, as also in the citation of the rule ii. 5, under rule 2 above, the whole series of illustrative citations from the Atharvan text, as given by the commentary under the rules themselves, are rehearsed: I have omitted them as superfluous.

organs (sparça) in such a case, and it is one to which the prescription of abhinidhana (i. 45) applies.*

द्वितीयचतुर्घाः सोष्माणः ॥ १०॥

10. The second and fourth of each series are aspirates.

The term ûshman, literally 'heat, hot vapor, steam,' is in the grammatical language applied to designate all those sounds which are produced by a rush of unintonated breath through an open position of the mouth organs, or whose utterance has a certain similarity to the escape of steam through a pipe: they are the sibilants and aspirations or breathings (see below, i. 31). In the term soshman, 'aspirated mnte,' and in its correlative anûshman, 'nnaspirated mute' (i. 94), ûshman is to be understood not in this specific sense, but in that of 'rush of air, expulsion of unintonated breath.' To this rule correspond Rik Pr. i. 3 (r. 13, xiv) and Vâj. Pr. i. 54, the latter being also verbally coincident with it. The Tâitt. Pr. has nothing analogous, and does not employ the terms soshman and anûshman.

The commentator merely adds the list of surd and sonant aspirates to his paraphrase of the rule, citing no examples. For the sonant palatal aspirate, jh, the Atharvan text affords no example. He next cites a verse from his metrical authority: sasthanair ûshmabhih prktas trtîyah prathamâç ca ye: caturthâç ca dvitîyâç ca sampudyonta iti sthitih; 'thirds and firsts, when closely combined with flatus of position corresponding to their own, become fourths and seconds: that is the way.' The most natural rendering of sasthanair ushmabhih would be 'with their corresponding ûshmans or spirants;' but this is hardly to be tolerated, since it would give us, for example, ts and ds, instead of th and dh. as the dental aspirates. This view is distinctly put forth, however, as regards the surd aspirates, by another authority which the commentator proceeds to cite at considerable length: the first portion, which alone bears upon the subject of our rule, is as follows: "another has said, 'the fourths are formed with h:'" (now begin the glokus) "some knowing ones have said that there are five 'first' mutes; of these, by the successive accretion of secondary qualities (guna), there takes place a conversion into others. They are known as 'seconds' when combined with the qualities of jihvâmûlîya, ç, sh, s, and upadhmânîya. The same. when uttered with intonation, are known as 'thirds:' and these, with the second spirant, are known as 'fourths.' When the 'firsts' are pronounced with intonation, and through the nose, they are called 'fifth' mutes. Thus are noted the qualities of the letters." The remaining verses of the quoted passage treat of the combination and doubling of consonants, and I am unable in all points to restore and translate them.

^{*} I add Weber's conjecture: "possibly—'as regards contact also' the view of Çâunaka is only a pratijāānam, and not vētti; that is, when the padyas enter into sandhi, they are to be converted into tettiyas before nasals (e.g. tad me, not tan me): but this is only pratijāānam, not vētti." I cannot regard this as the true explanation, since we have no doctrine of Çâunaka's, to the effect implied, anywhere stated, and since sparça is not, so far as I am aware, ever used of the contact or concurrence of one sound with another.

उत्तमा ग्रनुनासिकाः ॥११॥

11. The last in each series is nasal.

The term anunasika in this treatise means simply 'uttered through the nose,' and is applied to any sound in the production of which the nose bears a part: see rule 27, below. In ii. 35, it is used of the l into which a nasal is converted before an l: in all other cases of its occurrence, it designates a nasalized vowel, or what is ordinarily known as the independent and necessary anusvāra. Our treatise stands alone among the Prātiçākhyas in ignoring any such constituent of the alphabet as the anusvāra, acknowledging only nasal consonants and nasal vowels. For a comprehensive statement of the teachings of the other treatises respecting nasal sounds, see Roth, Zur Litteratur und Geschichte des Weda, pp. 68-82.

The Rik Pr. (i. 3, r. 14, xv) and Vâj. Pr. (i. 89) describe the nasal mutes as anunăsika; as does also the Tâitt. Pr. (ii. 30), including with

them the anusvâra.

श्वासो ज्वोषेघनुप्रदानः। नादो घोषवत्स्वरेषु ॥१५।१३॥

12. In the surd consonants, the emission is breath;

13. In the sonant consonants and the vowels, it is sound.

In this case and the one next following, two or three rules are stated and explained together by the commentator; that the division and enumeration is to be made as here given, is attested by the statement at the close of the section respecting the number of rules contained in it.

The Praticakhya here lays down with entire correctness the distinction between surd and sonant sounds, which consists in the different nature of the material furnished in the two classes to the mouth organs by the lungs and throat: in the one class it is mere breath, simple unintonated air; in the other class, it is hreath made sonant by the vocal chords on its passage through the throat, and thus converted into sound. The same thing is taught by two of the other treatises: see Rik Pr. xiii. 2 (r. 4, 5), and Taitt. Pr. ii. 8, 10: the Vaj. Pr. gives no corresponding definition, nor does it use the terms aghosha and ghoshavant, but adopts instead of them the arbitrary and meaningless designations jit and mud for the surds, dhi for the sonants (i. 50-53). No one of the treatises confuses itself with that false distinction of "hard" or "strong," and "soft" or "weak," which has been the bane of so much of our modern phonology.

The word anupradana means 'a giving along forth, a continuous emission,' and hence, 'that which is given forth, emitted material.' compare Taitt. Pr. xxiii. 2, where anupradana, 'emitted material,' is mentioned first among the circumstances which determine the distinctive character of a sound. The Rik Pr. (xiii. 2) uses instead prakrti.

'material.'

Our commentator gives the full list of the sonant letters: the vowels in their three forms, short, long, and protracted (pluta), the sonant

mntes, the semivowels, h, and, by way of examples of the sonant yamas (see below, i. 99), those of g and gh. 1 He then cites again a verse from his metrical authority, as follows: vyanjanum ghoshavatsamijnam antasthâ hah parâu yamâu: trayas trayaç ca vargântyâ aghoshah cesha ucyate; 'the consonants termed sonant are the semivowels, h, the two latter yamas, and the three last of each class of mutes: the rest are called surd.' There is one striking anomaly in this classification; namely, the inclusion among the sonants of h, which in our pronunciation is a surd of surds. The Sanskrit h is, as is well known, the etymological descendant, in almost all cases, of a guttural sonant aspirate, gh: are we then to assume that it retained, down to the time of establishment of the phonetic system of the language, something of its sonant guttural pronunciation, and was rather an Arabic ghain than our simple aspiration? or would it be allowable to suppose that, while in actual utterance a pure h, it was yet able, by a reminiscence of its former value, to exercise the phonetic influence of a sonant letter? The question is not an easy one to decide; for, while the latter supposition is of doubtful admissibility, it is equally hard to see how the h should have retained any sonancy without retaining at the same time more of a guttural character than it manifests in its euphonic combinations. The Prâticakhya which treats most fully of the h is that belonging to the Taittiriya Sanhita: we read there (ii. 4-6) that, while sound is produced in a closed throat, and simple breath in an open one, the h-tone is uttered in an intermediate condition; and (ii. 9) that this h-tone is the emitted material in the consonant h, and in "fourth" mutes, or sonant aspirates. I confess myself unable to derive any distinct idea from this description, knowing no intermediate utterance between breath and sound, excepting the stridulous tone of the loud whisper, which I cannot bring into any connection with an h. The Rik Pr. (xiii. 2, r. 6) declares both breath and sound to be present in the sonant aspirates and in h, which could not possibly be true of the latter, unless it were composed, like the former, of two separate parts, a sonant and a surd: and this is impossible. The Taitt. Pr., in another place (ii. 46, 47), after defining h as a throat sound, adds that, in the opinion of some, it is uttered in the same position of the organs with the following vowel; which so accurately describes the mode of pronunciation of our own h that we cannot but regard it as an important indication that the Sanskrit h also was a pure surd aspiration.

समानवमे उत्तरमुचैरुदात्तम् । नीचैरनुदात्तम् । स्रान्तिप्तं स्वरितम् ॥ १४ । १५ । १६ ॥

14. In a given key, a syllable uttered in a high tone is called acute;

15. One uttered in a low tone is called grave;

¹ MS. মহ, so that, but for the following verse, it would be very doubtful what was meant.

16. One carried from the high to the low tone is called circumflex.

The word samanayame signifies literally 'on the same pitch:' yama has this sense once in the Rik Pr. (xiii. 17), and several times in the Taitt. Pr. (xv. 9, xix. 3, etc.). The specification which it conveys is omitted in all the other treatises, probably as being too obvious to require statement. The meaning evidently is that the acute and grave pronunciations are bound to no absolute or fixed tones, but that, wherever one's voice is pitched, a higher tone of utterance gives the acute, a lower the grave. Our treatise, the Vaj. Pr. (i. 108, 109), the Taitt. Pr. (i. 38, 39), and Pânini (i. 2. 29, 30) precisely accord in their description of the udâtta and anudâtta accents: the Rik Pr. (iii. 1) tries to be more profound, describing the canse rather than the nature of their difference, and succeeds in being obscure: its definition of them, as spoken "with tension and relaxation respectively," would teach us little about them but for the help of the other authorities. As regards the svarita, the definitions virtually correspond, though different in form: the Taitt. Pr. (i. 40) and Panini call it a samahara, or 'combination,' of the other two; the Vaj. Pr. (i. 110) says that a syllable possessing both the other tones is svarita; the Rik Pr. (iii. 2), that a syllable is svarita into which the two other tones enter together. The term akshipta, used in the definition of our treatise, is difficult of explanation. It corresponds with the term akshepa, by which in the Rik Pr. (iii. 1) the accent in question is characterized, and which Regnier translates "addition," Müller "a clinging to, continuance, persistence (anhalten)," and Roth (Preface to Nirukta, p. lvii) nearly the same (aushalten, 'persistence, perseverance'); while Weber (p. 133) renders our akshiptam "slurred, drawled (geschleift)." Regnier's translation is supported by the analogy of the corresponding expressions in the other treatises, nor would it imply too great an ellipsis in the connection in which it stands in his text; but to understand the participle here in a corresponding sense, as meaning 'exhibiting the addition of the other two to each other,' could hardly be tolerated. Uvata's commentary explains âkshepa by tiryaggamana, which would admit of being rendered 'a passing through, or across, from one to the other;' and I have accordingly translated akshipta as having the sense of 'thrown, transferred, or carried from one to the other of the two already mentioned.'

The words udâtta and anudâtta mean literally 'elevated' and 'not elevated'—that is to say, above the average pitch of the voice. Svarita is more difficult to understand, and has received many different explanations, none of which has been satisfactorily established. I have myself formerly (Journ. Am. Or. Soc., v. 204) ventured the snggestion that it might come from svara, 'vowel,' and mean 'vocalized, exhibiting a conversion of semivowel into vowel,' as would be necessary, in order to the full enunciation of the double tone, in the great majority of the syllables which exhibit it: but I am far from confident that this is the true explanation. The accent is once called in the Taitt. Pr. (xix. 3) dviyama, 'of double tone or pitch.' The three Sanskrit accents, udâtta, anudâtta, and svarita, so precisely correspond in phonetic character

with what we are accustomed to call acute, grave, and circumflex, that it has not seemed to me worth while to avoid the use of these terms in

treating of them.

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The commentator gives only a paraphrase, and no explanation, of these rules, which he states and treats together, as I have done. As illustrations of the accents, he cites amāvāsyā' (e. g. vii. 79. 2) and kanyā' (e. g. i. 14. 2), both circumflex on the final syllable, and the words prā' 'mū' ca roha, which are not found in the Atharvan: but the reading is probably corrupt, and the phrase meant may be prajā'm ca roha (xiii. 1. 34); this would furnish instances of the udātta and anudātta—although, indeed, not better than a thousand other phrases which might have been selected.

स्वरितस्यादितो मात्रार्धमुदात्तम् ॥ १०॥

17. Half the measure of a circumflex, at its commencement, is acute.

Our treatise, with which the Vaj. Pr. (i. 126) precisely agrees, contents itself with this description of the svarita or circumflex, and we must commend their moderation. The other two treatises give way more or less to the characteristic Hindu predilection for hair-splitting in matters unessential, and try to define more particularly the degree of elevation of the higher portion, and the degree of depression of the Thus the Rik Pr. (iii. 2, 3) describes the higher portion which it allows to be either a half-mora or half the whole quantity of the syllable—as higher than *udâtta* or acute, while the after portion is indeed anudâtta or grave, yet has the udâtta pitch. The Tâitt. Pr. (i. 46) notices the doctrine held by our treatise as that of some teachers, and also remarks (i. 47) that some regard the whole syllable as a slide or continuous descent from the higher to the lower pitch. Its own doctrine (i. 41-45) is that, when the svarita follows an udâtta, its first half-mora only is higher than udatta, its remaining portion being either the same as udâtta, or lower, or the same as anudâtta.

We have in this part of the work only the general description of the accents: a more detailed treatment of them, as they arise and as they affect one another in the combinations of the continuous text, is given

in the third section of the third chapter (iii. 55 etc.).

The commentator merely cites, as offering instances of the circumflex accent, the following words: amâvâsyâ' (e. g. vii. 79. 2), kanyâ' (e. g. i. 14. 2), dhânyàm (e. g. iii. 24. 2), âcâryàh (e. g. xi. 5. 3), râjanyàh (e. g. v. 17. 9), nyàk (vi. 91. 2), kvà (e. g. ix. 9. 4), svàh (e. g. ii. 5. 2): they all appear again, as instances of the jâtya or original svarita, under iii. 57.

मुखे विशेषाः कर्णास्य ॥ १८॥

18. In the mouth there are differences of producing organ.

This rule is simply introductory to those that follow, respecting the place and mode of production of the different sounds of the spoken

alphabet. As regards each of these, two circumstances are to be considered: the sthana, or 'position,' and the karana, or 'producer.' The distinction between the two is laid down by the commentator twice over, in identical phrase, under rules 19 and 25: kim punah sthånam: kim karanam:...yad upakramyate tat sthanam: yeno 'pakramyate tat karanam; 'what, again, is "position," and what "organ"? that is position to which approach is made; that is organ by which approach is made.' The Taitt. Pr. has a similar definition in its text (ii. 31-34): "in case of the vowels, that is position to which there is approximation; that is organ which makes the approximation: in the case of the other letters, that is position upon which contact is made; that is organ hy which one makes the contact." That is to say; two organs are always concerned in the production of a sound, and hy their contact or approximation the sound receives its character: of these, the more immovable one is called the sthana, or place of production, and it is from this that the sound derives its class designation; the more movable or active one is called the karana, or instrument of production. The sthâna does not require to he stated, since it is implied in the very name of the sound; but, lest it should chance to be erroneously imagined that all the sounds are produced by one and the same organ at the places indicated, we are expressly taught the contrary in this rule, and the treatise goes on to specify the different organs.*

कएळानामधरूकएठः ॥ ११ ॥

19. Of the throat-sounds, the lower part of the throat is the producing organ.

That is to say, as the commentator goes on to explain, the upper part of the throat, as place of production, is approached by the lower part of the throat, as instrument of production. As the sounds constituting the class, he mentions a, in its short, long, and protracted values, h, and the visarjaniva. The same sounds are defined as kanthya by the Rik Pr. (i. 8, r. 38-40, xxxix-xli), which also notices that some call h and visarjaniya "chest-sounds" (urasya). The Vaj. Pr. (i. 71) declares them formed in the throat, but (i. 84) by the middle of the jaw as organ—a strange description, and not very creditable to the accuracy of observation of its author. The Taitt. Pr. (ii. 46) reckons only h and visarjaniya as throat-sounds, and then adds (ii. 47, 48) that some regard h as having the same position with the following vowel, and visarjantya as having the same position with the preceding vowel. This latter is the most significant hint which any of the Prâtiçakhvas afford us respecting the phonetic value of the rather problematical visarjaniya, indicating it as a mere uncharacterized breathing, a final h. There is an obvious propriety in detaching these two aspirations and a from the following class of "gutturals," k etc., in which the Paninean scheme (under Pan.

^{*} The meaning i under the title karana in the Böhtlingk Roth lexicon—viz. "Aussprache, Articulation"—is accordingly to be struck out: Weber's translation of the word, also—"Hervorbringungsweise, 'method of production'"—is both inaccurate and peculiarly cumbersome and unwieldy.

i. 1. 9) ranks them, as they receive no modifying action from any of the mouth organs: and the authority who called the aspirations chest-sounds may also be commended for his acnteness, since in their production it may even be said that the throat has no part: it is only, like the mouth, the avenue by which the breath expelled from the chest finds exit.

The commentator quotes a verse again, of which the general drift is clear, although I have not succeeded in restoring its readings so as to translate it with closeness. It speaks of the diphthongs as also containing an element of throat-sound, and says that they, as well as the nasal mutes, are declared to have a twofold position.

जिक्कामूलीयानां क्नुमूलम् ॥ २० ॥

20. Of the gutturals, the base of the jaw is the producing organ.

The name jihvamuliya, by which the class of sounds here spoken of is called, means 'formed at the base of the tongue:' I retain for them, however, the brief and familiar appellation of "guttnrals." They are stated by the commentary to be the r vowels, short, long, and protracted, the guttural mutcs k, kh, g, gh, n, the jihvamuliya spirant, or that modification of visarjantya which is exhibited before the surd gutturals k and kh (intimated by him by means of an illustrative instance, purushah khanati: the phrase is a fabricated one, not occurring in the Atharvan text), and the vowel l (also intimated by an example, klptah [x. 10. 23]). Precisely the same series of sounds is stated by the Rik Pr. (i. 8, r. 41, xlii) to constitute the class of jihvāmūliyās. The Vāj. Pr. declares the same, with the exception of the l-vowel, to be formed at the base of the tongue (i. 65) by the base of the jaw (i. 83). Taitt. Pr. (ii. 35, 44) includes in the class only the guttural mutes and spirant, and reverses the relation of position and organ, making the jaw the former, and the tongue the latter. This is evidently the more natural way of defining the mode of production of the class, and the more analogous with the method of our own treatise elsewhere, as in the cases of the throat-letters, palatals, and labials, the lower and more mobile of the two organs concerned being taken as the producer. But the usage of naming the class from the sthana seems to have required that the jihvamula be declared the sthana, and not the karana, of the sounds of which the well established name was jihvamuliya. By hanumula, 'root or base of the jaw,' must be here understood, it should seem, the posterior edge of the hard palate, which might well enough be regarded as the base of the upper jaw, or of the bony structure in which the upper teeth are set. It is, in fact, by a contact produced at this point between the roof of the mouth and the nearest part of the upper surface of the tongue that our own gutturals, k and g, are uttered. That the r-vowel should be included by the Prâtiçâkhyas among the guttural sounds, instead of among the linguals, where its euphonic value so distinctly places it, and where it is arranged in the Paninean scheme, is very strange, and would point to a guttural pronunciation of the r in certain localities or among certain classes; a guttural r is a well recognized constituent of many modern alphabets. The definition of the

l-vowel as a guttnral by part of the authorities is probably explainable by its occurrence only in the root klp, after a guttural, where it might naturally enough be so far assimilated as to take on something of a guttural character, being removed to a point considerably posterior to that in which the common l is uttered. The Vâj. Pr. (i. 69) and the Paninean scheme make it dental. The jikvâmûliya spirant and its compeer, the upadhmânîya or labial spirant, are nowhere expressly mentioned in our treatise, but are apparently necessarily implied in ii. 40, and are regarded by the commentator as forming part of the alphabet which the work contemplates. It does not seem probable that they were important modifications of the neutral breathing, the visarjanîya.

The commentator again closes his exposition with a verse, which, with some doubtful emendations, reads as follows: jihvāmūlam rvarnasya kavargasya ca bhāshyate; yaç¹ cai'va jihvāmūliya ļvarnaç ce'ti te smrtāh²: 'the root of the tongue is declared the organ of the rvowels and the k-series; also the spirant which is jihvāmūliya, and the

l-vowels are so explained.

तालव्यानां मध्यतिस्तम् ॥ ५१॥

21. Of the palatals, the middle of the tongue is the producing organ.

The sounds composing this class are stated by the commentator to be e, $\hat{a}i$, y, g, c, ch, j, jh, \bar{n} , and the vowel i, in its short, long, and protracted values. In this enumeration, he follows the order of the half verse which he goes on to quote, as follows: $t\hat{a}iv$ $\hat{a}iya_facavarg\hat{a}n\hat{a}m$ ivarnasya ca $bh\hat{a}shyate$: 'the palate is explained to be the place of production of $\hat{a}i$, y, g, the c-series, and the i-vowels.' The same sounds are specified by the Rik Pr. (i. 9, r. 42, xliii) as palatals, and are described by the Vaj. Pr. (i. 66, 79) as formed upon the palate, by the middle of the tongue, precisely as by our treatise. The Taitt. Pr. (ii. 36) furnishes the same definition of the c-series and (ii. 44) of g, but holds (ii. 40) that g is formed upon the palate by the middle and end of the tongue; and, as in other cases, it does not include any vowels in the class.

The ancient Sanskrit c and j can hardly have been so distinctly compound sounds as our ch and j (in church, judge), or they would have been analyzed and described as such by the phonetists. At the same time, their inability to stand as finals, the euphonic conversion of t and following c into ch, the Prakritic origin of c and j from ty and dy, etc., are too powerful indications to be overlooked of their close kindred with our sounds, and deviation from strict simplicity of nature. That the c was our ch, or something only infinitesimally differing from it, we see no good reason to doubt: and certainly, those who hold to the English ch and ch pronunciation for the mutes cannot possibly avoid accepting the ch pronunciation for the sibilant.

It has already been noticed above (under r. 10) that one of the palatal

mutes, jh, does not once occur in the Atharvan text.

² Įvarņasye'ti sa smṛtaḥ.

मूर्धन्यानां जिह्यायं प्रतिवेष्टितम् ॥ ५२ ॥

22. Of the linguals, the tip of the tongue, rolled back, is the producing organ.

The sounds composing this class are sh, and the t series, or t, th, d, dh, n; so says the commentator, and fortifies his assertion by adding the half verse mûrdhasthânam shakûrasya tavargasya tathâ matam. They are known in all the Prâtiçâkhyas by the same name (R. Pr. i. 9, r. 43, xliv; V. Pr. i. 67, 78; T. Pr. ii. 37, 44), and the Vâj. Pr. and Taitt. Pr. describe them in the same manner with our treatise, even to nsing the same verb to express the action of reverting or rolling back the tip of the tongue into the highest part of the mouth cavity. The semivowel and vowel r are in the Paninean scheme, and in our customary classification of the Sanskrit alphabet, also reckoned as linguals; and, as the euphonic laws of the language show, with entire propriety, since it is in no inconsiderable measure under the assimilating influence of the r that the others have come into the alphabet, or won their present degree of extension in the spoken system of sounds. The only letter of nearly corresponding position in our modern European alphabets is the r, which in English, at least, is ordinarily pronounced smoothly over the tip of the tongue within the dome of the palate, although not at a point so far back as would seem to be indicated by the term mûrdhan. This word means literally 'head, caput,' and hence an exact translation of its derivative mûrdhanya would be 'capital,' and this would be the proper name by which to call the class, if the term had not in English another well recognized meaning as applied to letters. Müller (p. xviii) holds mûrdhan to be used directly in the sense of 'dome of the palate' (Gaumendach), and Weber (p. 108) accepts the same meaning for giras, but it seems to me exceedingly doubtful whether words which mean so distinctly 'head,' as usually employed, can, without limiting addition, be taken as signifying a certain region in the mouth: especially when we see the Vâj. Pr. (i. 30) once use bhrûmadhya, 'the middle of the brows,' in a corresponding sense, and the Taitt. Pr. (ii. 3) mention the mouth (mukha) along with the "bead" (ciras) among the organs which give form to sound. Mûrdhan must be taken to mean 'dome of the palate' indirectly, if at all, in so far as that is the bighest point in "the head" which the tongue is capable of reaching. Muller proposes "cacuminal" as a name for the class; a far from unsuitable term, but one which has not found acceptance, perbaps as being rather cacophonons. The name employed by Bopp and many other later grammarians, "lingual," seems as free from objection as any other. "Cerebral" does injustice to the Hindu grammarians, and obtrudes offensively a false and absurd theory.

षकारस्य द्रोणिका ॥ ५३ ॥

23. Of sh, the trough-shaped tongue is the producing organ.

Our treatise is the only one which singles out sh from among the other lingual letters, to make it the subject of a special description.

Both the commentator and his metrical anthority regard the sh as included in the class which the last rule describes: we are to regard this, then, only as a specification which so far modifies the description already given. It is very possibly a later interpolation in the text of our treatise. The commentary, as usual, offers no explanation of the word dronika, which does not occur elsewhere in the grammatical language. It is a derivative from drona, 'wooden tub or trough,' and is explained in the Böhtlingk-Roth lexicon as "the tongue bent together in the form of a trough," which is undoubtedly the true rendering. It can hardly be claimed that this rule adds to the distinctness of our apprehension of the character of this sibilant, which is clearly enough exhibited by its relation to the other lingual sounds: it is not our sh-which is rather, as above noticed, the palatal c-but such a sibilant as is formed by reverting the tip of the tongue into the dome of the palate; much more nearly resembling our sh than our s, because uttered at nearly the same point with the former, only with the tip, instead of the broad upper surface, of the tongue: an & can only be produced pretty close behind the upper teeth.

As an instance of this sibilant, the commentator cites the phrase shad

âhuh cîtân shad u mâsah (viii. 9. 17).

द्त्यानां जिह्याग्रं प्रस्तीर्णम् ॥ ५४ ॥

24. Of the dentals, the tip of the tongue thrust forward is the producing organ.

The commentator makes this class include l, s, t, th, d, dh, and n, citing again a quarter verse to the same effect: danta lasatavarganam. The Vaj. Pr. adds the *l*-vowel to the class, which it defines (i. 69, 76) as formed at the teeth by the tip of the tongue. The Rik Pr. (i. 9, 10, r. 44, 45, xlv, xlvi) composes the class of l, s, and r, besides the t-series, and calls them dantamûlîyâs, 'letters of the roots of the teeth.' The Tâitt. Pr. (ii. 38, 42, 44) defines the same letters, except r, as formed dantamûleshu, 'at the roots of the teeth,' the t-series and s by the tip of the tongue, and l by its middle part. The description of the two latter authorities is undoubtedly the more accurate, since the contact by which our "dentals" are produced is not upon the teeth themselves, but just at their base or behind them: between the tip of the tongue and the teeth, where no close contact is possible, are brought forth the English th sounds. What makes in all cases the peculiar character of an l is that in its production the tongue is in contact with the roof of the mouth in front, but open at the sides. The Taitt. Pr., then, in defining the las produced by the middle of the tongue, doubtless refers to the part where the escape of the breath takes place, while the others are thinking only of the part by which the contact is made.

म्रोधानामधरीष्ठम् ॥ ५५॥

25. Of the labials, the lower lip is producing organ.

¹ dantyā.

^{2 -}oshthyam; as also in more than one instance in what follows.

That is to say, as in the case of the throat sounds (r. 19, above) the upper surface of the throat was regarded as the passive organ, or position, and the noder surface as the active organ, or producer, so here the upper lip is passive organ, and the lower lip active: or, as the commentary phrases it, "the upper lip, the position (sthana), is approached by the lower lip, the producer (karana)." The labials are, according to the commentator, the diphthongs o and âu, in the normal and the protracted form, the p-series, or p, ph, b, bh, m, the upadhmaniya spirant (which is not named, but indicated by an example, purushah pibati: the phrase is not found in the Atharvan), and the vowel u, short, long, and protracted. That the semivowel v is omitted here is doubtless the fault of the copyist only, since the sound is not provided with a place elsewhere. The verses cited from the metrical treatise are as follows: sandhyakshareshu varneshu varnantam oshthyam ucyate: upadhmaniyam ukâro vah pavargas tathâ matâh: 'in the diphthongal sounds, the final sound is called labial; the upadhmaniya, u, v, and the p-series are also so considered.' The Rik. Pr. (i. 10, r. 47, xlviii) agrees with our treatise; the Vaj. Pr. (i. 70, 80, 81) also defines the same sounds as produced upon the lip, and by the lip,* but then adds farther that in the utterance of v the tips of the teeth are employed; the same specification as to the v is made by the Taitt. Pr. (ii. 43: its commentator explaining that in the utterance of that letter the points of the upper teeth are placed on the edge of the lower lip); and the latter treatise also, as in other cases, omits the vowels and diphthongs from the class. The descriptions of v given by the two Prâticakhyas of the Yajur Veda, as well as that offered in the Paninean scheme (which declares its organs of utterance to be the teeth and lips), leave no room to doubt that at their period the v had already generally lost its original and proper value as English w—as which alone it has any right to be called a semivowel, and to rank with y-and, doubtless passing through the intermediate stage of the German w, had acquired the precise pronunciation of the English v. Whether the silence of the Rik and Atharvan Prâticakhyas on this point is due to their prior date, or to a local or scholastic difference in their utterance of the v, or to the fact that, in view of the exclusively labial euphonic character of the sound they were willing to overlook the peculiarity of atterance distinguishing it from the other labials. I would not undertake to decide: but should consider the first snpposition the least possible, and the second the most probable, of the three.

नासिक्यानां नासिका ॥ ५६॥

26. Of the nose-sounds, the nose is producing organ.

The commentary paraphrases nasikyah by nasikasthana varnah,

¹ pavargaç ca tathâ matah.

^{*} Weber misundertands rule 80, samānasthānakaraṇā nāsikyāushihyāh, to signify that the nasals and labials have the same sthāna and karaṇa with one another: the meaning evidently is that, in each of these two classes of sounds, sthāna and karaṇa are the same organ: in the one case, they are both the nose; in the other, both are the lips.

'sounds which have the nose as their place of production,' and cites, without farther explanation, as instances, bruhma (e.g. i. 19. 4), payânsi (e.g. i. 9. 3), of of it at, and n, n, n, m: that is to say, the nasikya (see below, i. 100), anusvara, the yamas (see below, i. 99), and the nasal mutes. A verse from the metrical authority follows, sustaining this exposition: násikye násiká sthánam tathá 'nusvára ucyate: yamá vargottamâç câ 'pi yatho 'ktam câi 'va te matâh; 'in the case of nâsikya, as likewise of anusvara, the nose is called the place of production; the yamas, and the finals of the several mute series are also understood to be as explained.' But there are grave objections to be made to this exposition. In the first place, the nasal mutes have been expressly declared above (i. 11) to be anunasika, and the anunasikas are the subject, not of this rule, but of the next. Again, this treatise, as already noticed, acknowledges no anusvâra, and regards such syllables as the second of payansi to contain nasalized or anunasika vowels, which also fall under the next rule. We can hardly doubt that the commentator has here allowed himself to be misled by the authority on which he relies, and which may have treated the nasals in a manner essentially different from that of our treatisc. The sounds to which the rule is meant to apply must be merely the nasikya and the yamas. This conclusion is supported by the authority of the Rik Pr., which (i. 10, r. 48, xlix) gives the name of nose-sounds (nasikya) to the nasikya, yamas. and anusvara; * and also by that of the Vaj. Pr., which (i. 74) declares the same sounds to be formed in the nose, and pronounces (i. 80) their place and organ of production to be the same, only specifying farther (i. 82) that the yamas are uttered "with the root of the nose." The doctrine of the Taitt. Pr. (ii. 49-51) is less definite and distinct: it states that the nose-sounds are nttered with the nose, or else with the nose and mouth both, when their organ varies according to the varga or mute series to which they belong.

<mark>त्रनुनासिकानां मुखनासिकम् ॥ ५७ ॥</mark>

27. Of the nasalized sounds, the mouth and nose together are the producing organs.

The commentator explains anunasikah by anunasikasthana varnah, sounds which have for their place of production the anunasika. I know of no other case in which anunasika is treated as the name of any part or organ in the mouth, and cannot but regard this paraphrase as an unintelligent and mechanical continuance of the same mode of explication which has been correctly applied to the class appellations in the preceding rules. Without any statement of what sounds are to be considered as referred to in this rule, the commentary cites the following illustrative instances: dve ca me vinçatic ca (v. 15. 2); tisrac ca me trinçac ca (v. 15. 3); catasrac ca me catvarinçac ca (v. 15. 4); puman

^{*} The commentary of one of Müller's manuscripts (see p. xix), by a noteworthy agreement in misinterpretation with our own, tries to bring in the nasal mutes also as belonging to the class.

puinsah (e. g. iii. 6. 1); tatra puinsuvanam (vi. 11. 1): they are cases, wanting both in brevity and variety, of the nasalized vowels only. But, besides the nasal vowels, the rule must be intended to describe the character of the nasal semivowel l (ii. 35), and of the nasal mutes (i. 11). In the production of all these sounds, the mouth bears a part not less essential than the nose: each of them requires a given position of the mouth organs, to which the expulsion of the breath, in part or in whole, through the nose, then communicates a nasal quality.

The corresponding definition of the Rik Pr., "a nasal sound is produced by the month and nose together," does not occur until the latter portion of that treatise (xiii. 6, r. 20). The Vaj. Pr. (i. 75) gives an equivalent explanation; the Taitt. Pr. (ii. 52) says, with equal justice, "nasal quality is communicated by the unclosing of the nose"—of

course, in any given position of the mouth organs.

A verse is again cited by the commentator, as follows: mukhanāsike ye varņā ucyante te 'nunāsikāh: samānāsyaprayatnā ye te savarņā iti smṛtāh; 'the sounds uttered in the mouth and nose together are called nasalized. Those produced by a like effort of the mouth are styled similar.' The term savarņa, 'similar,' applied to sounds differing in quantity only, and not in quality, is nscd but once in our treatise (iii. 42), and is not defined by it: the cited definition is almost the same with that of Pāṇini (i. 1. 9): that of the Vāj. Pr. (i. 43) is more explicit: the other treatises, like our own, employ the word without taking the trouble to explain it.

रेपस्य दत्तमूलानि ॥ ५०॥

28. Of r, the roots of the teeth are the producing organs.

By the 'roots of the teeth' must be understood, doubtless, the bases of the upper front teeth, at which, according to the Rik Pr. (i. 9-10) and the Taitt. Pr. (ii. 38, 42), the whole class called in our treatise simply "dentals" (see rule 24, above) is produced. It seems strange to find them here called the karana, instead of the sthana, of r, and we are almost ready to assume a break in the anuvitti of the term karana, and supply sthana in place of it; and the more especially, as the cited verse favors the substitution: rephasya dantamûlâni pratyag vâ tebhya ishyate: iti sthânâni varnânâm kîrtitâni yathâkramam; 'of r, the place is taught to be the roots of the teeth, or a point close to them: thus have the places of the sounds been set forth in order.' The commentator farther adds: apara aha: hanumuleshu rephasya dantamuleshu và punah: pratyag và dantamûlebhyo mûrdhanya iti câ 'pare; 'another has said: "the place of r is at the roots of the jaw, or, again, at the roots of the teeth, or close behind the roots of the teeth; others say that it is a lingual." A considerable difference of opinion among the Hindu phonetists respecting the position of the r is indicated by these citations and by the teachings of the different phonetic treatises. The Rik Pr., as we have seen (nnder rule 24), includes it with the other dentals, as dantamúliya, but adds (i. 10, r. 46, xlvii) that some regard it as gingival. The Vaj. Pr. defines it as produced at the roots of the

teeth (i. 68), by the tip of the tongue (i. 77); the Taitt. Pr. (ii. 41), by the tip and middle of the tongue, at a point close behind the roots of the teeth: the Paninean scheme alone reckons it as mardhanya, 'lingual.' The separation of r and r from one another, and of both from the lingual class, is the strangest and least defensible feature in the alphabetic classification of the Pratiçakhyas. By its effect in the euphonic system of the language, r is clearly a lingual, and can hardly be supposed to have been uttered otherwise than as our smooth English r is uttered, with the tip of the tongue reverted into the dome of the palate, to the lingual position. In this position, however, it cannot be vibrated or trilled; and it is possible that in the laborious and somewhat artificial pronunciation of the Vedic schools it was, for greater distinctness, thrown farther forward in the mouth, to the teeth or near them.

As instances of the r, the commentator cites caradah purûcîh (ii. 13. 3), punû raktam vûsah (not in AV.), punû rûpûnî (i. 24.4), jaghnû rakshûnsî (iv. 37.1), agnî rakshûnsî (viii. 3.26), agnî rakshah (xii. 3.43).

स्पृष्टं स्पर्शानां कर्णाम् ॥ ५१ ॥

29. In the case of the mutes, the organ forms a contact.

From this contact (sparça) of the organ with the place of production, the mutes (sparça) derive their name.

The Rik Pr. (xiii. 3, r. 9) gives the same definition, with the addition that the organ is also asthitam, 'not stationary.' The Tâitt. Pr. (in ii. 33, 34, cited above, under i. 18) implies a contact in the case of all sounds excepting vowels and spirants (ii. 45), not laying down any distinction between the complete contact of the mutes, and the imperfect one of the semivowels.

The commentator cites a verse which establishes a noteworthy exception to this rule: svaramadhye dadhâu yatra pîdanam tatra varjayet: mṛduprayatnâv uccâryâv idâ midham nidarçanam; 'where d and dh occur between two vowels, there one must avoid a close contact; they are to be nttered with a gentle effort: instances are idâ (v. 12.8) and midham (puru-midham, iv. 29.4).' This corresponds, if it does not coincide, with the conversion of these letters in a like case into a lingual?, unaspirated and aspirated, usual in the Rik and in some schools of the White Yajus, and taught by the Rik Pr. in i. 11, 12 (r. 51, 52, hii, liii), as resting upon the authority of Vedamitra, and by the Vâj. Pr. in iv. 143 as the doctrine of some teachers. Our verse does not indeed point out that the relaxation of the contact takes place at the sides of the tongue, and that the resulting sound is hence of the nature of an l; but this is altogether probable.

ईषत्स्पृष्टमत्तःस्यानाम् ॥३०॥

30. In the case of the semivowels, it is partially in contact.

That is to say, the organs are so nearly approximated that their position may be called an imperfect contact. The Rik Pr. (xiii. 3, r. 10) vol. vii.

calls it duhsprshtam, 'imperfectly or hardly in contact.' The Taitt. Pr., as just remarked, does not distinguish the degree of contact of the semi-vowels from that of the mutes.

The name by which the semivowels y, r, l, v are called—namely antahstha, 'intermediate, standing between'-is generally explained as indicating that the sounds in question, in the arrangement of the alphabet, stand between the mutes and the spirants. The Böhtlingk-Roth lexicon, however (sub verbo), defines it to mean 'occurring only in the interior of a sentence, never at its end.' This latter interpretation is exceedingly unsatisfactory: in the first place, the definition would be as true of the spirants and aspirates as of the semivowels; in the second place, it would not be true of the l; in the third place, no letter could be called antahstha in this sense which could occur at the beginning of a sentence, as all the semivowels do. But the other explanation also seems too indefinite and indistinctive. Is it not more likely that these sounds were named "intermediate" in reference to the mode of their formation, as being neither by a complete contact, like the full mutes, nor by an open position, like the vowels? The name antahstha would then be virtually accordant with our own "semivowel."

ऊष्मणां विवृतं च ॥३१॥

31. In the case of the spirants, it is also open.

The final ca of the rule indicates, according to the commentator, that ishatspṛṣhṭam is also to be inferred from the preceding rule: in the formation of the spirants (c, sh, s, and h are specified by the commentary as constituting the class), the organ is both in partial contact and open—a rather awkward way of saying, apparently, that its position is neither very close nor very open. The Taitt. Pr. (ii. 44, 45) declares that the spirants, in their order, are uttered in the positions of the mutes, but with the middle part of the producing organ opened. The Rik Pr. (xiii. 3, r. 11) includes the vowels, anusvāra, and the spirants together, as produced without contact, and with the organ stationary.

In the absence of a varnasamāmnāya, 'list of spoken sounds,' or 'alphabet,' such as the other Prātiçākhyas give (Rik Pr., introductory verse, and i. 1, 2; Vāj. Pr. viii. 1-31; Tāitt. Pr. i. 1-10), it is not easy to assure ourselves how many spirants the treatise acknowledges, and in what order it would assume them to stand. As we have already seen, the commentary accepts the jihvāmūliya and upadhmānīya, which are nowhere expressly mentioned in the text, but of which the existence seems necessarily implied in ii. 40. The class of spirants is then probably composed of h (visarjanīya), h, hk (jihvāmūliya), ç, sh, s, and hp (upadhmānīya). The Rik Pr. (i. 2, r. 10, xi) includes in the class these seven, along with anusvāra; the Vāj. Pr. (viii. 22), only s, sh, s, h; the Tāitt. Pr. (i. 9), the seven of our treatise, with the exception of visarjanīya.

स्वराणां च ॥ ३ १॥

32. In the case of the vowels also, it is open.

The commentator understands, and doubtless correctly, that vivrtam only, and not ishatsprishtam also, is implied in this rule by inference from the preceding. He adds the whole list of vowels, both simple vowels and diphthongs, in their short, long, and protracted (pluta) form.

The Rik Praticakhya's doctrine respecting the vowels was cited under the last rule. The Taitt. Pr., in its rules ii. 31, 32 (cited above, under i. 18), implies that in the utterance of the vowels the organs only approximate, and do not touch one another.

ष्टके स्पृष्टम् ॥३३॥

33. Some consider it as forming a contact.

That is, the commentator says, some maintain that in the utterance of the vowels the organs are in contact; others, that they remain open. The former opinion is too obviously and grossly incorrect, one would think, to be worth quoting. No one of the other treatises favors it in any degree.

रकारीकारयोर्विवृततमम् ॥ ५४॥

34. In the case of e and o, it is very widely open.

The word eke, 'some,' is no longer in force, but this and the two following rules are more detailed explanations of our treatise itself under its own rule 32. For the pronunciation of the Sanskrit e and o, see below, under rule 40.

The commentator cites, as instances of these diphthongs, eke taranti (vi. 122. 2), oko asya (v. 22. 5).

ततो ज्याकारस्य ॥३५॥

35. And even more so, in the case of d.

The a-sound ("Italian a," as in father) is unquestionably the most open of all the sounds of the alphabet, the only one in the utterance of which all the mouth organs are removed, so far as is possible, from the path of the intonated breath, which is thus suffered to stream forth wholly unimpeded and unmodified.

संवृतो ज्ञारः॥३६॥

36. The a is obscured.

The modes of utterance of the short a, of the r-vowel, and of the diphthongs e and o, taught by the Praticakhyas, are matters of special interest in their phonetical systems, as helping to characterize the period in the history of the language represented by these treatises. Neither of the sounds in question has fully retained, down to their time, that value which general considerations, and the euphonic system of the Sanskrit language, show to have been the original and proper one. As regards the short a, it was no longer generally spoken with the full

openness of â, or as its correspondent short sound. See what Weber says upon the subject, under Vaj. Pr. i. 72-which rule, like the final one of Panini's grammar (viii. 4.68), prescribes that the short a is to he treated throughout as if coincident in quality with long \hat{a} —a prescription which implies, of course, that in actual pronunciation it was Whatever degradation from its pure open quality the a had suffered must have heen, it seems to me, in the direction of the neutral vowel (English "short u," in but, son, blood), which has so generally taken its place in the modern pronunciation of India, rather than toward an e or o, as suggested by Weber. The term samvrta, 'covered up, enveloped, obscured' (antithesis of vivrta, 'opened'), very well expresses the quality of this neutral sound, which differs from a only in not having the mouth freely opened for its utterance, and which does not, like e and o, call for a placing in position of any of the mouth organs. The Tâitt. Pr. does not separate a from â, but says of both (ii. 12) that they are to be spoken "with the lips and jaws not too much approximated, and not too widely parted"—a description too indefinite to derive any distinct idea from. The Rik Pr. also fails to note any difference of quality hetween the long and short values of this vowel, But it is very doubtful whether we are to regard the silence of these two treatises upon the point in question as any evidence that they are of notably earlier date than the others, as Weher seems inclined to do: their peculiarity is much more likely to he due to a local or a scholastic difference of pronunciation, or they may have simply disregarded, as of little account, the discordance of quality hetween a and \hat{a} .

The commentary gives, as furnishing instances of short a, the words $a_{g}vah$ (e. g. ii. 30. 5), $a_{g}ah$ (e. g. iv. 14. 1), and $a_{g}nih$ (e. g. i. 7. 4).

संस्पृष्टरेफमृवर्णम् ॥३७॥

37. The r-vowels are combined with an r.

In the grammatical language of our treatise and of the Taitt. Pr., varna appended to the name of a short vowel causes it to include also the long and protracted (pluta) vowels of the same quality: it is a designation of the quality, without distinction of quantity. The Taitt. Pr. (i. 20) gives a special rule establishing the usage. Thus rvarna means

rkara, rkara, and rakara.

The commentator gives no explanation of this rule: he simply repeats it with an added bhavati, and then cites a couple of phrases containing the r, viz.: idam pitrbhyah pra bharâmi barhih (xviii. 4.51), and putrâir bhrâtrbhir aditih (vi. 4.1). But he next proceeds to quote from his metrical authority a few verses which are more to the point; they read as follows, with the exception of the first and last lines, which are corrupt:....1 rvarne svaramâtrâ yâ tasyâ madhye rdhamâtrayâ: repho bhavati samsprshto yathâ ragulyâ nakham tathâ: sûtre manir ive 'ty eke true krimir ive 'ti ca:....2 'an r is comhined with a half-mora

rvarnasya madhye yugapac ca canorah.
 anena matrasyadhayah praçleshe û ubhayar api.

in the middle of the vowel mora in the r-vowel, just as a nail is with the finger; like a pearl on a string, some say; like a worm in grass, say With this accords quite nearly the doctrine of the Rik Pr., which says (xiii. 14) that r forms part of the r-vowel, and is found in the middle of it. Neither treatise attempts to define what constitutes the remainder of the vowel. In the analogous rule (iv. 145) of the Vâj. Pr., that remainder is (if the rule is in this point correctly interpreted by Weber, which is doubtful; my own manuscript of the commentary is too corrupt just here to be made anything of) declared to be of the character of a; so that, according to Weber, $r = \frac{a}{4} + \frac{r}{2} + \frac{a}{4}$. Taitt. Pr. does not, any more than the Rik Pr. in the earlier and more genuine part of its text, take any notice of the presence of heterogeneous elements in the r and l vowels; it only says (ii. 18) that in their utterance the jaws are somewhat closely approximated, and the tip of the tongue brought near to the parts immediately above and behind the row of teeth. The etymological and euphonic character of the sound in question is simply that of a vocal r, an r which is employed with the value of a vowel, as r has been and is employed in other languages in different parts of the earth; and there seems no good reason for regarding it as having originally deviated in mode of pronunciation from the semivowel r. But it is clear that, at the time of the Prâticakhyas, the Hindus had begun to find that difficulty in its utterance and use as a vowel which caused its entire disappearance in the later forms of the language, and has made of it in the mouth of the modern Brahmans the syllables ri and rî. If I may judge from experiments made in my own mouth, the bringing of the r far enough forward in the mouth to be trilled would render very natural, and almost unavoidable, the slipping in, before and after it, of a fragment of the neutral vowel, our u in but, the "obscure (samvrta) a" of our treatise: of this character, it can hardly be doubted, would be what elements the sound contained which were not r.

दीर्घप्रुतयोः पूर्वा मात्रा ॥३०॥

38. Of the long and protracted forms of the vowel, the first mora is so combined.

The commentary paraphrases thus: dîrghaplutayos tu pûrvâ mâtrâ samsprshtarepham rvarnam bhavati; which is a palpable blunder for samsprshtarephâ bhavati: i.e. if the vowel is extended so as to occupy two or three moras, the r-element which it contains is not prolonged, but is found only in the first mora: the whole remainder of the sound is composed of the other element. The Rik Pr. says in like manner (xiii. 14) that the r is found only in the former half of long \hat{r} , and is either shorter or of the same length with that which enters into r.

Two instances of the long \hat{r} are given by the commentator as illustrations: they are kartin akshasva (x.1.14), and pitin upe 'mam (xviii. 4.40).

सलकारमूवर्णम् ॥३१॥

39. The *l*-vowels are combined with *l*.

This doubtless means what is more clearly and unequivocally stated by the Rik Pr. (xiii. 14, r. 35): that when, in such combinations as those which have just been described, l takes the place of r, the result is the l-vowel. The other two treatises, as we have seen above, treat the two vowels together, in the same rules. The use of the term lvarna in the rule would seem to imply the possible occurrence of the long and protracted forms of the vowel, which are, on the other hand, impliedly denied in rule 4 above; they are also ignored by the Tâitt. Pr., as they are by the Rik Pr. in its proper text (i. 1, r. 1); while the prefixed introductory verses to the latter treatise, and the Vâj. Pr. (viii. 7), acknowledge them.

The commentator cites, as instances of this vowel, pañcadaçena klptáh (viii. 9.15), and sinîvâly acîklpat (vi.11.3): the Rik. Pr. (xiii. 14, r. 35) notices the fact that the l occurs nowhere excepting in the root klp. He then adds a verse from his metrical authority: rvarne ca rvarne loh praçlishtaç ca yadâ tayoh: lî iti tad ichanti prayogam tadvido janâh; the general meaning is clear enough, but the verse needs amending to

be made translatable.

संध्यचराणि संस्पृष्टवर्णान्येकवर्णवदृत्तिः ॥४०॥

40. The diphthongs are composed of combined vowels; their treatment is that of a simple vowel.

The term sandhyakshara means literally 'syllable of combination;' it is the usual name for a diphthong in all the treatises excepting the Tâitt. Pr. The correlative samanakshara, 'homogeneous syllable,' is but rarely used, as indicating the simple vowels, when it is necessary to distinguish them from the diphthongs (in our treatise, only in iii. 42). The diphthongs are vowel sounds which, though not simple and homogeneous, yet form but a single syllable, and are treated as if they were simple sounds. They are e, o, ai, au. The two former would be more properly written ai, au, since the euphonic processes of the language clearly show these to have been their original values, each containing a short a as its first element, followed by an i or an u respectively. That they should be so readily composable of a and i, a and u, in the accidental and momentary combinations of the phrase, and especially, that they should be so regularly resolvable into the same sounds, if they did not actually contain those sounds, is not to be credited. The same evidence proves the other two to be made up of long \hat{a} , with i or u following. The mutual relation of e (ai) and ai must have been nearly that of our I and aye. In the Prakrit languages, however, e and o have gained the pronunciation of the e in they and o in note; they have become sounds intermediate between, instead of made up of, a and i and a and u; and they have acquired short values as well as long. As e and o they are likewise prononneed in the usage of the modern Brahmans. But even at the

¹ lvarno.

period of the Prâticakhyas, and in the phonetic systems of the Vedic schools, they no longer had uniformly their original value. From the present rule, indeed, no such inference could be drawn; but the one which next follows establishes a distinction in value between them and âi, âu. The Rik Pr. (xiii. 15, r. 38) predicates doubleness of position of all the four, and goes on (r. 39) to cite Çâkatâyana to the effect that a forms half of each, and i and u the remaining half: but it adds (r. 40) that e and o, by reason of the fusion of their parts, have not a sound in which the separate components are distinct. This might, however, be fairly enough said of our own ai and au (in pine, house). The Vâj. Pr. (i. 73) defines only ai and au as composed of two different elements (the commentary explains them to be $\frac{1}{2}a + 1\frac{1}{2}e$ and $\frac{1}{2}a + 1\frac{1}{2}o$ respectively), and directs them (iv. 142) to be treated as simple sounds, without seeing any reason for giving the same precept as to e and o. The Taitt. Pr. is not less explicit: it says of o (ii. 13, 14) that in its enunciation the jaws are to be neither too nearly approached nor too widely sundered, while the lips are to be closer than in a; of e (ii. 15-17), that the lips are to be somewhat protracted, the jaws pretty closely approached, and the middle part and end of the tongue in contact with the upper rows of teeth (jambhan); and finally (ii. 23), that in e, as in i, the middle of the tongue is brought near the palate. More distinctive descriptions of our e and o could hardly be given: there is evidently no thought at all of the combination of two phonetic elements into one in them. On the other hand, $\hat{a}i$ and $\hat{a}u$ are defined with equal clearness (ii. 26-29) as containing each the half of an a (which some held to be of closer position than the ordinary a), followed by one and a half times i and u in the two cases respectively.

नैकारीकार्योः स्थानविधौ ॥४१॥

41. Not so, however, with ai and au, in a rule of position.

The commentator's paraphrase is âikârâukârayoh sthânavidhâne ekavarnavad vritir na bhavati. What the meaning and value of the rule is, is not altogether clear: I can see no other application of it than to forbid the inclusion of âi among the palatals only, and of âu among the labials ouly, since they are both throat-sounds as well. By implication, then, e and o would admit of being ranked as merely palatal and labial; but the commentary to rule 19, above, treated these, as well as the others, as of double position, and as containing an element of throat-sound.

A verse is added in the commentary, as follows: âikârâukârayoç câ 'pi pûrvâ mâtrâ parâ ca yâ: ardhamâtrâ tayor madhye saṃspṛshṭa iti smṛtâh. The last pâda is corrupt, and I am too uncertain of the scope of the verse to venture to amend it: perhaps the meaning is that, while the beginning and end of âi, for instance, are clearly a and i, a mora in the middle of the sound is of a mixed character.

This rule ends the first section of the first chapter: the signature is caturâdhyâyikâyâm prathamasyâ 'dhyâyasya prathamah pâdah: sûtra 41: ekacatvârinçat. This is the only case in which the number of rules reckoned is assured by being expressed in words as well as in figures.

विसर्जनीयो जिमिष्टानः ॥४५॥

42. Visarjanîya is abhinishtana.

The commentator vouchsafes no explanation of the rule, but merely paraphrases it, as follows: visarjaniyo varnah: abhinishtano bhavati: and adds, as instances of visarjantya, agnih (e.g. i. 7.4) and vrkshah (e.g. iv. 7.5). The term abhinishtana does not form part of the grammatical language of the Prâticakhyas or of Panini: among the former, it occurs only in this place: a rule of the latter (viii. 3. 86) determines its derivation and orthography, and the instances given in the commentary show its equivalence with visarjaniya; the Böhtlingk-Roth lexicon also refers (sub verbo) to several vocabularies which contain the word, giving it the same meaning. More significant is its occurrence several times in the grhya-sûtras (as cited in the lexica of Böhtlingk-Roth and Goldstücker), also with the signification visarga.* It looks as if it had belonged to an earlier grammatical terminology than that of our treatises, and had been retained merely as a reminiscence of something formerly current: its introduction into our text is otherwise quite unexplained, and, so far as can be seen, without significance. Probably it is an ancient name of visarjaniya or visarga, crowded out of use by the latter terms. The Böhtlingk-Roth lexicon gives it, with reference to this passage, the meaning "an expiring or vanishing sound (ein verklingender Laut)," hut this is merely a conjecture, and by no means so well supported by the etymology of the word (which would suggest rather 'a sounding forth, a resonance') as to be placed beyond the reach of question. Panini's rule must be taken as conclusive respecting the derivation and form favored in his time, or by his school; but the analogy of the words abhinidhana, abhinihita, abhinihata, abhinipâta cannot but suggest abkinishthâna as the true form, coming from the root stha with the prefixes abhi and ni. This would not, however, relieve the obscurity investing the primitive meaning and application of the term; an obscurity which also attaches, in some measure, to the word visarjaniya and its more modern representative visarga.

व्यञ्जनविधारणमभिनिधानः पीडितः सन्नतरो हीन-श्वासनादः ॥ ४३ ॥

43. The holding apart of a consonant is abhinidhana; it is pinched, quite weakened, lacking breath and sound.

^{*}That the word ever means 'a sound of the alphabet in general,' as stated in both the lexicons, seems to me very donbtful: I have not access to all the authorities referred to by Böhtlingk-Roth, but the commentary to Panini, abhinishtano varnak, does not necessarily imply any thing of the kind, but may rather mean 'an abhinishtana letter;' while, in the citation given by Goldstücker as an instance of the general meaning, it evidently signifies visarga: dirghabhinishtanantam, '(a name) ending in a long vowel or in visarga.' If the other cases relied on are not less equivocal than these, the general definition 'sound' must be rejected.

We have here one of those subtleties of phonetic analysis which are such marked characteristics of the Hindu science. In order to any satisfactory understanding of it, we must call in to our aid theoretical considerations, as the dark and scanty expositions of the grammatical treatises and their commentators are insufficient. The phenomenon forming the subject of the rule evidently is or includes a defective pronunciation or indistinctness of utterance, and the two next rules teach ns that it affects a mnte which is followed by another mute, and one which stands as final. In what does the peculiarity of utterance of such a letter in such a position consist? A mute is a sound produced by a complete closure of the organs of articulation in some defined position. entirely cutting off the escape of breath through the mouth; and it is by the breaking of the closure with the utterance of a following open sound that the mute is itself made audible. In speaking a p, for instance, so long as the lips are kept compressed, there is no audible sound; but as soon as the contact is severed with the expulsion of either unintonated or intonated breath, in the passing of the voice to the utterance of some other sound, the p is clearly heard. A sonant mute, as a b, is less absolutely a dumb letter before the breach of the contact. because it includes an expulsion of resonant breath from the throat into the cavity of the mouth during the closure of the organs, and this resonance is sufficient to indicate imperfectly the character of the contact. A nasal mute, as m, is yet less dependent upon the explosion for its distinctness of utterance, since it implies a free flow of sonant breath through the nose, and so is continuous and even quasi-vocalic in its nature: yet even the nasals, and still more the sonants, are explosive letters, and do not have a perfect utterance unless the contact is broken. A following vowel, of course, discovers them most completely; yet any open and continuable letter, as a semivowel or a sibilant, answers the same purpose, and in the syllables pya, psa, for instance, we feel that p is fairly enunciated. If, however, one mute letter follows another, the explosion of the former cannot properly occur; the organs are supposed to pass from one position of complete contact to another, without any intervening open sound: the former mute is imperfectly uttered. like thing takes place when a mute is final, or when there is no following open sound to break the contact with: we then have only that very imperfect hint of its pronunciation which is given by the formation of the contact upon the preceding open sound. We are accustomed, indeed, in order to give distinctness to a final mute, to unclose the organs again after making the contact, thus whispering after it, as it were, a bit of a vowel; and the absence of this unclosure is remarked by phonetists as a peculiarity of the pronunciation of some dialects of spoken Chinese, rendering their final mutes almost inaudible: it is hardly possible, too, to make one mute follow another so closely that there shall not slip out, in the transfer of the organs from one contact to the other. a bit of breath or sound, which greatly helps to make the former of the two audible: and of both these inorganic or involuntary additions or insertions we shall see hereafter that the Hindu theory takes note: but they do not wholly remedy the theoretic imperfection of the ntterance. That the indistinct pronunciation thus described is the abhinidhana of

the Hindu theory, or at least the central and most important fact of those comprehended under that name, seems to me tolerably certain, although it must be confessed that there are difficulties attending such an explanation: none, I think, that may not be done away by supposing that the Hindus had not made a complete physical analysis of the phenomenon, and hence that their descriptions of it partake of vagueness and inconsistency; and also, that they have brought together under the name abhinidhana things not entirely accordant, although analogous, in character. The difficulty of the subject is sufficiently attested by the doubtful and discordant views taken of it by those who have had occasion hitherto to examine it, as Müller, Regnier, Weber, Goldstücker (s. v. abhinidhana). An alternate view to which I have myself been somewhat attracted is that by the abhinidhana is meant the instant of silence which intervenes between the closure of the organs for the first mute, and their opening for the second: that the Hindu theory regards, in the word apta, for example, the utterance of the p as complete by the closure of the lips upon the preceding \hat{a} , and that of the t as complete by the unclosure of the tongue before the following a, while the brief interval of suspended utterance separating the two acts is abhinidhana. This, better than anything else, would give meaning to the first word of our rule, "a holding apart of the consonants," and would accord well enough with the rest of the description, translating the last term 'deprived of both breath and sound.' Fatal objections, however, to this explanation are: the treatment of the phenomenon as something affecting the former consonant, not interposed after it; the difficulty of assuming any such interval of silence in the case of a concurrence with sonant and nasal mutes; and the non-applicability of the theory to the case of a final consonant. The term vyanjanavidharanam must therefore be understood as used simply in antithesis to the samuuktam of rule 49: whereas, in other cases of concurrence of consonants, there is actual combination, with partial assimilation of the latter to the former (rule 50), here each is held apart from the other as distinct. true, applies only to the concurrence of consonants, and not to a final; but it is allowable to regard as contemplated in a general description or designation of a phonetic phenomenon its principal case only, although not to adopt an explanation of the phenomenon itself which should shut out any of the cases included by it. If I am not mistaken, the term abhinidhána has also a similar meaning. Etymologically, and by its use in other than grammatical senses, it should signify, as a neuter noun, simply 'a setting down against' the following letter, as distinguished from an actual combination with it. That it is used in our treatise as a masculine is somewhat surprising, but cannot be regarded as an error of the manuscript. The word seems to be taken almost in the sense of abhinihita, as denoting the sound affected by the process rather than the process itself, and so to be attracted to the gender of varnah or sparçah: the explanations which follow it in the rule, it will be noticed, apply rather to the altered letter than to the alteration. Rik Pr. (vi. 5, r. 17, cccxciii) treats the word as neuter, and defines it clearly as a process: samdharanam samvaranam ca vacah, 'a repressing and obscuring (holding together and covering up) of the voice.'

Our own commentary, as is its wont in difficult cases, leaves ns here altogether without valuable aid. It simply paraphrases the rule, adds the dicta of a couple of other authorities, and closes with a verse; as follows: vyanjanavidhâranam abhinidhâno bhavati: pîditaç ca çvâsanâdâbhyâm: apara âha: vyanjanavidhâranam abhinipâto mâtro japano bhavati pîditaç ca çvâsanâdâbhyâm: apara âha: vyanjanavidhâranam abhinipâto mâtro japane gurutâ bhavati: antahpade padânte vâ pîditah sanna eva tu: avakrshṭatara sthânâd avasannataraç ca sah: hînaç ca çvâsanâdâbhyâm yo yatrârtho bhidhîyate. I will not attempt to translate the passage, as I could do so but in part, and as it seems incapable of throwing any valuable light upon the subject in hand. The most noteworthy circumstance about it is its presentation of abhinipâta, 'a falling down against,' as a synonym of abhinidhâna.

स्पर्शस्य स्पर्शे जीनिधानः ॥ ३३ ॥

44. A mute suffers abhinidhana before a mute.

The phraseology of the rule would be the same, if abhinidhana were here intended to be taken adjectively, as conjectured above, and if it were meant to say that 'a mute before another mute becomes abhinidhana.' The commentary merely cites as instances the three words brhodbhih, samidbhih, marudbhih, of which only the last is found in

the Atharvan (p. marut-bhih, e. g. ii. 29. 4).

The cases in which abhinidhana alone ensues (only accompanied in part by duplication, according to iii. 28 etc.) are those in which a mute is followed by another mute (and, if itself non-nasal, then by another non-nasal) of the same or a succeeding series. Followed by a mute of a preceding series, it suffers also the intervention of sphotana, by ii. 38; if followed by a nasal, a yama is interposed, by i. 99. In an additional note at the end of the work will be presented a conspectus of all the consonantal combinations occurring in the Atharva-Veda, with an exhibition of the forms assumed by them according to the phonetic rules of our treatise.

The Rik Pr. (vi. 5, r. 17, cccxciii) pronounces not only the mntes, but also the semivowels, except r, to suffer abhinidhâna when followed by mutes. This would, however, in the Atharvan text, add only the groups lk, lg, lp, lph, lb, lm, and vn to those which by our own treatise admit the modification, so that the extension of the rule is meant virtually to include merely the l, a letter which our rule 46 shows to be regarded as especially liable to abhinidhâna. The l requires so marked a contact of the tongue at its tip that the omission of the breach of that contact by a following open letter may well enough have been felt by the Hindu phonetists as needing to be looked upon as abhinidhâna.

पदात्तावग्रस्योश्च ॥४५॥

45. Also at the end of a word, or of the first member of a compound.

The commentator paraphrases as follows: padante avagrahe ca spar-

sparge paratah: abhinidhano bhavati: but it is clear that the specification sparge paratah, 'before a following mute,' has no business here: that case is included in the preceding rule, and the present precept applies to the pronunciation of a final as a final, without any reference to what may follow it. This appears partly from the nature of the case, partly from the analogy of the corresponding rule in the Rik Pr. (vi. 5, r. 18, cccxciv), and partly from the cited illustrations of the commentator himself: the words given by him under the preceding rule would be cases of avagraha in the pada-text, and, of those which he presents under this, the last two are instances of avagraha before vowels. His citations are tan: vah: yah: devanam (xi. 1.5), ap su (e. g. i. 6.2),

sålåvrkån-iva (ii. 27. 5), and khalvån-ira (ii. 31. 1).

The rule of the Rik Pr., already referred to, api câ 'vasâne, 'also in pausa,' is coincident in meaning with our own. The Taitt. Pr. takes no notice whatever of the doctrine of abhinidhana, nor does the Vaj. Pr. directly. The latter, however, presents a couple of rules which are worthy of remark, as having to do with the same general subject. In i. 90, 91, it teaches that when a final mute stands either in pausa or before a following word, there takes place a release or separation of the organs of production, the passive and the active organ, or sthana and karana: that is to say, the contact is dissolved (Weber, and Goldstücker following him, have failed to apprehend the true meaning of the phenomenon described). This dissolution of the contact, in the case of the mute in pausa, is what was referred to above as taking place in our ordinary pronunciation after a final contact-letter, in order to make the mute more distinctly audible: as occurring before another word, it is analogous with the sphotana of our treatise (ii. 38), and the dhruva of the Rik Pr. (vi. 11), although having a different sphere of occurrence from both of them, as they from one another: it is a formal release of the organs of articulation from the position belonging to the close of one word; before they take up that belonging to the beginning of another, in order to the more distinct separation of the two independent members of the sentence.

ं लकारस्योष्मसु ॥४६॥

46. L suffers abhinidhána before spirants.

The only spirants before which l is found actually to occur in the Atharva-Veda are c and h: the commentary cites iustances of both, as follows: catabalcâ vi roha (vi. 30. 2); **a gamishyati balhikân (v. 22. 9); **ibalho nâma (vi. 16. 2); nor are the combinations to be met with in the text in any other words than those here quoted. The rule and its comment are of particular interest as settling authoritatively the reading of the word balkika, 'of Balkh,' which, owing to the customary carelessness of the scribes, in not distinguishing lh from hl (our own manuscripts vary between the two), has often been read and explained as bahlika.

L is also noted by the Rik Pr. (vi. 6, r. 20, cccxcvi) as suffering abhinidhana before spirants, according to the Cakala doctrine, which is not that of the treatise itself. By the Vaj. Pr. (iv. 16) it is regarded as to

be treated in the same manner as r in a like position. R before a spirant suffers svarabhakti, or the insertion of a vowel-fragment, according to all the other Prâtiçâkhyas (see below, rule 101); and the treatment of the Vâj. Pr. is virtually, though not formally, the same. The doctrine, then, of the Vâj. Pr., in admitting a svarabhakti between l and a spirant, would differ little from that presented in the Rik Pr.—which (by vi. 11) would admit a dhruva, or (by vi. 13, r. 47, ccccxxii) even a svarabhakti, after the abhinidhâna of the l—except by omission of the abhinidhâna, of which, as already remarked, it nowhere takes any notice; but our own treatise, by prescribing abhinidhâna, and not allowing even sphoiana after it, differs quite notably from the others. I must confess myself unable to explain why either l before a spirant, or the nasals before h, as taught in the next rule, should suffer or be regarded as suffering the obscuring process of abhinidhâna.

उपानानां रुकारे ॥४०॥

47. Also the guttural, palatal, and dental nasals before h.

The instances cited by the commentary, in illustration of this rule, are as follows: pratyon hi (iv. 19.7); gon hi (a fabricated case: the lingual nasal never occurs before h in the Atharvan text); krimin hantu

(ii. 32, 1); amûn hetih (vi. 29, 1).

The only consonants ever found to precede h in the Atharva-Veda are r, l, n, and n. The first case, rh, is one of svarabhakti (i. 101); the second, lh, falls under the preceding rule; the other two are provided for by this rule, which is moreover, like many others in the treatise, cast in a theoretical form, or made more general than the requirements of the text justify. Since, according to the theory of this Praticakhya (see ii. 9), no masal ever occurs immediately before a sibilant, rules 46 and 47 might have been cast together into the form: "the masals and l suffer abhinidhana before the spirants."

The cases which this rule contemplates are in the Rik Pr. (vi. 7, r. 23, ccexcix) included in a much more general precept of the Çâkalas, viz., that all the mutes except m, when final and followed by initial spirants

or y, r, and v, suffer abhinidhana.

श्रास्थापितं च ॥४८॥

48. Abhinidhána is also called âsthápita.

I translate in obedience to the commentator, who says: asthapita-samjña; ca bhavati: abhinidhana; ca: etany evo 'daharanani; 'it both receives the name asthapita and abhinidhana: the instances are those already given.' Unfortunately, this alternative title for the phenomenon which we have found so obscure does not notably help our comprehension of it: the word admits of being translated, in accordance with the explanation of abhinidhana offered above, 'made to stand up to, or against;' but it may also be rendered 'stopped,' that is, 'silenced,' and so may favor another theory of the phenomenon.

श्रतो जन्यत्संयुक्तम् ॥४१॥

49. Any other combination of consonants is conjunct.

That is to say, all other combinations of consonants than those specified in rules 44-47 as accompanied with abhinidhana are simply samyukta, 'yoked together, conjoined;' the precise nature of such conjunction being defined by the next rule. The commentator says: atah anye vyanjanasamdhayah samyukta bhavanti: anye abhinidhanat padantasparcâh: 1 antahsthoshmasu padâdishu² ca samyujyante: 'other combinations of consonants than these are conjunct; other final mutes than abhinidhana, before semivowels and sibilants commencing a word, are conjoined with them;' and then, instead of citing from the text any actual cases, he goes on to put the series of words with which we are already acquainted, godhuk, virât, drshat, trishtup (see rules 3, 8), in lengthy and tedious succession, before yati, vayati, rathe, cete, shande, and saye. This by no means exhausts all the possible cases to which the name samyukta applies; nor has there been any restriction of abhinidhana to cases of contact between a final and an initial, as the commentator's language would seem to imply.

This rule has the appearance of restricting the term samyoga to such combinations of consonants as are not accompanied with abhinidhana. But such is not its meaning, at least as regards the general usage of the treatise: samyoga is employed everywhere in the more general sense expressly attributed to it by a later rule of this chapter (i. 98).

Nothing is to be found in the other Praticakhyas corresponding to

this rule and the one next following.

पूर्वद्वपस्य मात्रार्धं समानकर्णां परम् ॥५०॥

50. The latter half-measure of the first constituent has the same organ of production with the second constituent.

The term pûrvarûpa is not elsewhere found in our treatise with this meaning, although it occurs twice in a like sense in the Rik Pr. (ii. 12, iii. 7). The construction of the rule is also irregular, and its ellipsis of pararûpena or parena at the end (parena is added by the commentator in his paraphrase) is bolder and more obscure than is usual elsewhere. These anomalies may be owing to the fact that the rule is taken in its present form and extent from some other treatise, and a metrical one. Weber (p. 127) has noted that it forms a half-çloka, and it is actually cited as such by the commentator, along with the other half-verse, as follows: pûrvarûpasya mûtrûrdham samûnakaranam param: pratyayêna bhanet kûryam etat samyuktum ishyate; 'the latter half-measure of the first element must be made to have the same organ of production with the succeeding element; such a combination is regarded as conjunct.' We can hardly help, however, both here and in the rule, assuming a different meaning for karana from that which it

padántát sparçah.

² padâbhidhishu.

has elsewhere in our treatise, and usually also in the other kindred works, and translating it rather 'mode of production' than 'organ;' and this is an additional indication of the foreign origin of the rule itself. The only instances given by the commentator are such as do not show any difference of organ between the two constituents of the conjunction: they are vatsáu virájah (viii. 9. 1), stomá àsan (xiv. 1. 8), and ayam vaste (xiii. 1. 16). Of the accuracy of the physical observations which could discover any actual assimilation of the first element of these and other similar combinations, in its final portion, to the latter, I find it hard to say much in praise: I am unable to discover that any part of the t in vatsáu becomes an s, or any part of the s in vaste a t, any more than the s and t respectively become converted in part into the following vowels au and e.

ऋस्वं लघुसंयोगे ॥५१॥

51. A syllable containing a short vowel, excepting before a conjunction of consonants, is light.

The distinction of syllables, as regards their metrical value, is properly into light (loghu) and heavy (guru); long (dirgha) and short (hrasva) are terms to be used of vowels only. The neuter gender of the terms in the rule is to be explained by their agreement with aksharam, 'syllable,' understood.

The Rik Pr. (xviii. 19, r. 37) and the Taitt. Pr. (xxii. 15) have rules closely agreeing with this. The former also adds (xviii. 20, r. 42, 43) that a short vowel with a consonant makes a light syllable, but without a consonant one still lighter—an unpractical and useless distinction. The Vâj. Pr. has no passage corresponding to our rules 51-54, but remarks, rather out of place, in iv. 105, that vowels which precede a conjunction of consonants or a final consonant, or which stand in pausa, are of double quantity; a loose and inaccurate statement, as compared with those of the other treatises, since it is the value of the syllable, and not the quantity of the vowels, that is increased in the cases mentioned.

The commentator gives as illustrations the indifferent words dadhi and madhu, which we have had already (under i. 4), and shall meet with many times more.

गुर्वन्यत् ॥५५॥

52. Any other is heavy.

That is, as the commentator goes on to explain, those syllables are heavy which contain a short vowel before a group of consonants, or a long vowel, or a protracted (pluta) vowel. As instances of the first case, he gives takshati (takshati, ix. 10. 21) and rakshati (e. g. viii. 9. 13); of the second, çâlâḥ (viii. 6. 10); of the third, bhûyâs idâəm (ix. 6. 18).

The corresponding rules of the other treatises are Rik Pr. i. 4 (r. 20, 21, xxi, xxii) and xviii. 19 (r. 36, 37), Tâitt. Pr. xxii. 14, Vâj. Pr.

iv. 105. The Rik Pr. farther adds (xviii. 20, r. 40, 41) that, while a long vowel is heavy, it is yet heavier if accompanied by a consonant.

ग्रनुनासिकं च ॥५३॥

53. Also a syllable containing a nasalized vowel.

The commentator's illustrative citations are the same which he has already once given us, under rule 27; it is unnecessary to repeat them here.

The other treatises have the same rule (R. Pr. i. 4, r. 21, xxii, and xviii. 19, r. 38; T. Pr. xxii. 14), but with the difference that the former, admitting the anusvara as a separate constituent of the alphabet, declares a vowel followed by anusvara to be heavy.

पदान्ते च ॥५४॥

54. And at the end of a word.

The commentator simply paraphrases the rule, and adds one of his staple lists of illustrations, viz. godhuk etc. (see under i. 3). The Vâj. Pr. (iv. 105, cited under r. 51, above) holds a like doctrine. The Tâitt. Pr. (xxii. 14, 15) restricts the heaviness to such final syllables as end with a consonant, as our own commentator would seem to do by the instances he cites. It is not meant, of course, that in the combinations of the phrase the final syllables of words are heavy, but in the disjoined or pada-text, where each final is followed by a pause, or at the end of a verse or phrase. The Rik Pr. makes no mention of this case.

परस्य स्वरस्य व्यञ्जनानि ॥५५॥

55. Consonants belong to the following vowel.

This and the three succeeding rules concern the division of words into syllables, and the assignment of the consonants they contain to the proper vowels. It is a matter of pretty pure theory; the only practical bearing it can have must be in determining whether such and such a consonant shall receive one or another accent, as being that of the preceding or of the following vowel: and this itself must be almost unmixed theory, since it can hardly be claimed that even sonant consonants share at all in accentuation: certainly they do not do so consciously. The teachings of the different Praticakhyas are very nearly accordant upon the subject, and this general introductory rule is equivalently stated by all (R. Pr. i. 5, r. 23, xxiv, and xviii. 17, r. 32; V. Pr. i. 100; T. Pr. xxi. 2).

The commentator gives as instances again dadhi and madhu, which are to be divided da dhi and ma dhu.

संयोगादि पूर्वस्य ॥५६॥

56. The first consonant of a group belongs to the preceding vowel.

The commentator here does his work very unsatisfactorily: he fabricates his illustrations, instead of drawing them from the Atharvan text, giving atra sati, adravati, pradravati, and he does not note for us the fact that, in the combinations which he presents, the former consonant is to be doubled, by iii. 28, and then inform us to which of the two products of duplication the precept of the rule applies. In the Rik Pr. (i. 5, r. 25, xxvi; also xviii. 18, r. 34), the name samyogadi belongs to the second letter, as being the first of the original combination or samyoga, while the one preceding it is specifically the product of the duplication (kramoja): and the treatise allows it to be counted either with the preceding or following syllable: thus, either at tra or att ra. The Vaj. Pr. (i. 102) calls the first consonant of the group as it stands after duplication samyogadi, and unites it with the former syllable: and in the same sense, probably, the term is to be understood in our own treatise and in the Taitt. Pr. (xxi. 4): we are to write and divide at tra sati, âd · dravati, prad · dravati.

The commentary adds: apara âha: hasayamam pûrvosye'ti, of which the meaning is obscure and the pertinence questionable. If it has to do with the disposition of the yama, it ought to come in under rule 58 or 104.

पर्यं च ॥५७॥

57. As does also a final consonant.
The commentary offers once more podkuk etc. (as under i. 3). The equivalent rules of the other treatises are Rik Pr. xviii. 17 (r. 32), Vâj. Pr. i. 101, and Tâitt. Pr. xxi. 3.

रेफह्कार्क्रम्जं च ॥ ५०॥

58. And one generated by krama after r and h.

The commentator offers no explanation of the rule, merely adding to it, in his paraphrase, the words pûrvasvarasya bhavati, and proceeding at once to give his illustrations. These are the same which appear again under iii. 31, and also, in part, under i. 100: they are for the most part words which do not occur in the Atharvan text, and, being much corrupted, are in more than one case of doubtful reading. A comparison of the illustrations under some of Panini's rules (viii. 3. 26, 27; 4. 46) is of important use in restoring their true form. They are arkah, arca (so under Pan. viii. 4. 46; MS. artha, arcco), vartah (MS. gartte, vartto), bhargah (MS. bhagnah, bhagah: found in AV. only at xix. 37. 1), prahnah, pûrvâhnah, aparâhnah (ix. 6. 46), apa hmalayati (MS. apa brahma layati, apa hyalati), vi hmalayati (MS. under iii. 31 vi hyalati), apa hnute (omitted under i. 100), vi hnute (omitted here), and brahma (e.g. i. 19. 4). In all these words, the consonant following the r or the h is doubled, by iii. 31, and the former of the two, which is regarded as the one that owes its existence to the krama, or duplication, is to be reckoned as belonging to the preceding syllable. Thus we are to read and divide ark · kah, arc · cá, vart · tah, bharg · gah, prâhn · nah, pûrv · vâhn · nah,

aparahn nah, apahm malayati, apahn nute, brahm ma.

The rule i. 104 of the Vâj. Pr. corresponds in meaning with this, although more general in its form; the Taitt. Pr. (xxi. 5) teaches that a consonant not combined immediately with a vowel belongs to the preceding syllable, which would leave only the final member of any group to be attached to the following vowel: there are some exceptions made, which need not be noticed here. In the Rik Pr., the simple and frequent case of a consonant doubled after an r does not seem to be provided for at all: its rule (i. 5, r. 26, xxvii) is constructed only for a case in which the consonant following the r is itself succeeded by another: one is tempted there to reject the commentator's interpretation, and understand the rule to mean "two consonants are reckoned as belonging to the preceding vowel, when there is duplication of the second of a group:" this would make it accord with our own.

रुकमात्रो इस्वः ॥५१॥

59. A short vowel is of a single mora.

The commentator gives us again, as instances, dadhi and madhu. The word translated 'mora' is mâtrâ, 'measure,' a term common in this sense to all the Prâtiçâkhyas. It is the fundamental measure, which cannot itself be defined by anything else. Only the Rik Pr. (xiii. 20) attempts to fix the length of the short, long, and protracted vowels, by comparing them with the cries of certain birds.

The corresponding definitions of the other treatises are Rik Pr. i. 6

(r. 27, xxviii); Vâj. Pr. i. 55, 56; Tâitt. Pr. i. 33.

व्यञ्जनानि च ॥ ६०॥

60. The consonants are of the same length.

The commentator's illustrative instances are again dadhi and madhu. All the other treatises (R. Pr. i. 7, r. 34, xxxv; V. Pr. i. 59; T. Pr. i. 37) agree in assigning but half a mora as the length of a consonant.

द्विमात्रो दीर्घः ॥ ६१ ॥

61. A long vowel has two moras.

The commentator's instance is câlâ (ix. 3. 17).

There is no discordance among the Praticakhyas upon this point: compare Rik Pr. i. 6 (r. 29, xxx); Vaj. Pr. i. 57; Taitt. Pr. i. 35.

त्रिमात्रः प्रतः॥ ६२॥

62. A protracted vowel has three moras.

The instance cited is idasm (ix. 6. 18). All the cases of protracted vowels which the Atharvan text contains are rehearsed below, in rule 105. Compare the accordant rules of the other treatises in Rik Pr. i. 6 (r. 30, xxxi); Vâj. Pr. i. 58; Tâitt. Pr. i. 36.

With this rule ends the second section of the first chapter. The signature in the manuscript is prathamasya dvittyah padah: 62.

षट्पुरसोरुकारो ज्ल्यस्य दशदाशयोरादेशश्च मूर्धन्यः ॥ ६३ ॥

63. The final of shash and puras becomes u before daça and dâça respectively, with substitution of a lingual for the following initial.

That is to say, shash before daça becomes sho, and the daça becomes daça, making the compound shodaça; and puras with daça, in like manner, forms purodaça. The commentator cites from the text the words themselves merely, viz.: shodaçam (iii. 29. 1), purodaçau (e. g. ix. 6. 12). Neither of the words is analyzed, or restored to its theoretically regular form, by the pada-text; and our treatise, accordingly, according to its own programme, has nothing to do with them: and the same is true of the words referred to in the three following rules.

These two words, with others of somewhat analogous character, are treated in the Vâj. Pr., iii. 39-46.

कृषे रेफस्य लकारः ॥ ६४ ॥

64. In the root krp, l is substituted for r.

The whole commentary upon this rule is lost, and only its repetition before the next rule remains. Apparently, the copyist has carelessly skipped from the repetition of the rule in the commentator's paraphrase to that with which, as usual, the whole exposition closes. The loss is of very insignificant consequence: the missing passage would probably have afforded us some instances from the Atharvan text of verbal forms or derivatives of the root klp or kalp, which are frequent there. The rule may be taken as the assertion of an opinion that the original form of this root is karp; an opinion rendered plausible by the derivative noun krp (see the next rule), and by the analogy of the root kar, of which the other seems to be a secondary form. With it corresponds Pânini's rule viii. 2. 18; none of the other Prâticakhyas offers anything equivalent. If our treatise has set itself to note the words in which a l appears in the place of a more original r, it should not pass over the words in which the root car becomes cal, as avicacala, punccali, etc., glaha and glahana, which are hardly to be separated from the root grah, udumbala (viii. 6. 17), etc.

न कृपादीनाम् ॥ ६५॥

65. Not, however, in the words krpå etc.

This is the first instance in our treatise of a rule stated in this form, the words or phrases to which the precept contained in the rule refers being conceived to form a series, or gana, of which the first only is given in the rule, and the others comprehended in an et cetera. The form of statement is characteristic of the Atharva Prâtiçâkhya and of Pânini, and of them only: the Vâj. Pr. employs it but once (v. 38), the others not at all (R. Pr. iv. 39, where, for convenience's sake, a list is thus referred to in one verse which is given in full in the next, furnishes but an accidental and insignificant analogy). It would seem to be the business of a commentator to give the list in full, but the author of our commentary evidently does not think so, for he very seldom, if the gana have any extent, presents us more than specimens from it. Here, he gives krpå påvaka (xviii. 4. 59), and krpåt svah (vii. 14. 2: the reading doubtless is a corrupt one, and should be krpå svah, as is read by both the Sâma and Yajur-Vedas, in their corresponding verses); also krpanah (krpanah, xi. 8. 28), and its derivative karpanyam (not found in AV.). If these two words, which come from altogether another root, actually belong to the gana, it should contain also krpamanasya (v. 19, 13) and akrpran (xviii. 3, 23).

With this and the preceding and following rules are to be compared

Pân. viii. 2. 18, and the vârtikas upon it.

लकारस्य रेफः पादमङ्गुलिमित्येवमादीनाम् ॥ ६६॥

66. In pådam angulim etc., r is substituted for l.

The instances given by the commentary as coming under this rule are care pådam angurim (iv. 18. 6 and v. 31. 11), sahamûrân anu daha (v. 29. 11), yâhi mayûraromabhih (vii. 117. 1), and açvasya vârah parushasya vârah (x. 4. 2). The gana should also include pañcângurih (iv. 6. 4), svangurih (vii. 46. 2), anangureh (viii. 6. 22), and perhaps tirya (for tilya, from tila: iv. 7. 3): angurim also occurs again in xx. 136. 13. As counter-instances, to show the necessity of constructing a gana, of a limited number of instances, the commentator cites angulibhyo nakhebhyah (ii. 33. 6), and bâlâs te prokshanth santu (x. 9. 3).

It is not in accordance with the usage of our treatise elsewhere to give, in citing a word or phrase in a rule, another form than that which it actually has in the text: we should have expected here पारमहारिय. The form ity evam adi, instead of simply adi, is found once more, in

ii. 29.

नकारमकार्योर्लीपे पूर्वस्यानुनासिकः ॥ ६०॥

67. In case of the loss of a n or m, the preceding sound becomes nasalized.

The cases of elision of n and m are taught below, in ii. 32-34, which see for illustrations. The commentator offers here only the words

krpasvih.

vincatile (c. g. v. 15. 2) and payansi (e. g. i. 9. 3)—which are very ill chosen, since, though each offers an example of a nasalized vowel, neither exhibits an elision of an original nasal mute, according to any rules contained in this treatise.

Corresponding rules to this and the following one of our treatise are offered by the other Prâtiçâkhyas: see Rik Pr. iv. 35 (r. 79, ccxcix); Vâj. Pr. iii. 129, iv. 3; Tâitt. Pr. xv. 1: there are some differences of application, but chiefly dependent upon the different modes of treatment of the nasal mutes adopted by the different authorities, which will be explained in their place.

बरोध्मायत्ती च ॥ ६०॥

68. Also in case of their conversion into y, r, or a spirant.

The instances given by the commentary are as follows: rathan iva (v. 13. 6), salarrkan iva (ii. 27. 5), khalvan iva (e. g. ii. 31. 1)—in all these cases, the final n is first, by ii. 27, converted into the spirant visarjaniya, the latter then changed, by ii. 41, into y, and this finally, by ii. 21, dropped altogether; so that we have the successive steps rathan iva, rathan iva

As the n must always be converted into the spirant visarjaniya before it becomes y, it seems superfluous to make separate mention of the latter in the rule. The commentator apparently feels this objection, and ventures for once a defence, as follows: ûshmano grahanât siddhe punargrahanana kim: nityatram na syât: rtuñr ut srjate vaçî; 'when the matter is made certain by the use of the term ûshman, why any farther mention? it is because this does not apply to all cases, as is shown by the instance rtuñr ut srjate vaçî.' I do not see the point of this defence: it does, indeed, explain the mention of r in the rule, but it has nothing

to do with that of y.

म्रनुनासिकस्य च पूर्विणैकादेशे ॥ ६१॥

69. And in case of the combination of a nasalized vowel with a preceding vowel.

The only cases cited by the commentary are those of the combination of the initial vowel of ança with a preceding final vowel, by simple fusion or by the elision of the initial a; they are: ubhâv upânçu (pada upa-ançu) prathamā pibāru (iv. 32. 7), somasyā 'nço (vii. 81. 3), and ye vrîhayo yavā nirupyante 'nçavaḥ (ix. 6. 14).

Compare Rik Pr. xiii. 10 (r. 26), Vâj. Pr. iv. 51, Tâitt. Pr. x. 11.

पुरुष ग्रा वभूवाँ इत्यवसाने ॥७०॥

70. In the passage purushu á babhúváň, the vowel is nasal before the pause.

The passage referred to is x. 2. 28: sarrâ diạnh purusha à babhûvâň, where, in a case of donbt and questioning, the final a of babhûva is both protracted and nasalized. The pada-text reads simply purushah: â: babhûvāň3: and there would be no call for such a rule as that given here, but for the requirements of the krama-text, in which babhûva, as the last word in a verse, must suffer parihâra (iv. 117), or repetition with iti interposed, and in which it might be made a question whether the nasality of the vowel should or should not be preserved before the iti. This rule teaches us that the nasal quality is lost before the iti, as rule 97, below, teaches also with respect to the protraction; and the same things are taught once more by iv. 120, 121. The three last kramapadus of the verse will be, then: purusha à babhûvâň3: à babhûvâň3: babhûvêň3: babhûvêň3:

स्वर्णस्य रेफात्यरं यत् ॥७१॥

71. Of the r-vowels, the part following the r receives the nasal quality.

We have seen above, in rules 37 and 38, that the τ -vowel is regarded as composed of a piece of a r, with a fragment of vowel sound preceding and following it, and that, when it is long or protracted, the τ -quality is found only in the first mora. Here we learn that, when such a vowel is nasalized, the nasal quality does not affect the τ , but only the part of a vowel which follows it. Any one may perceive, however, upon trying the experiment, that there is no physical difficulty in the way of nasalizing the τ itself, supposing the τ -vowel to be properly accordant in pronunciation with that letter throughout.

The commentator cites bhûmidrhham acyutum pûrayishnu (v. 28. 14), drhha prathûn (vi. 136. 2), and janûn drhhantam (xii. 2. 9). The instances, as in many other cases, are wanting in variety and in completeness: as an example of the long vowel nasalized, we may take pilîtîr upe 'mam, already cited under rule 38: no ease of the protracted vowel

nasalized ocenrs in the text.

The other treatises offer nothing corresponding to this rule.

उकारस्येतावपृक्तस्य ॥७५॥

72. U is nasalized when standing alone, before iti.

In the pada-text of the Atharvan, as in those of the other Vedas, the particle u is always written un iti. In this rule, its nasality in such a situation is noticed: in the rule next succeeding are taught its long quantity and its exemption from conversion into a semivowel before the following vowel.

The term aprkta means 'uncombined with any other letter:' it is said also of the particles \hat{a} and o (= $\hat{a}+u$) in rules i. 79, iv. 113, below.

दीर्घः प्रमृक्यश्व ॥ ७३ ॥

73. In the same situation it is also long, and pragrhya.

The term pragrhya means, hy implication, that the vowel to which it applies is not liable to the ordinary changes of sandhi, viz. fusion with, or conversion into a semivowel before, a following vowel. I say, by implication: for only in the Taitt. Pr. (which uses, however, not pragrhya, hut the related term pragraha) does the pronouncing a vowel pragrhya exempt it from change; all the other treatises find it necessary to teach hy a specific rule (see iii. 33, helow, and the quotations there given) that the vowels declared to be pragrhya are not subject to euphonic alteration. The whole proceeding is somewhat analogous with that by which the Rik Pr. teaches the conversion of visarjaniya into r; first rehearsing all the cases in which the conversion takes place, and pronouncing their visarjaniya to he rephin or riphita, and then finally declaring the riphita visarjaniya convertible into r. The word pragrhya is explained hy Böhtlingk-Roth to mean literally "to be held apart, or isolated," i. e., from the combinations of sandhi.

Any satisfactory reason why the particle u should be treated in this peculiar manner by the framers of the pada-text is not readily apparent. There are hut few cases in our text in which it assumes a long form in sanhità (viz. eight instances: they are given under iii. 4), so that it can hardly be said to exhibit any special tendency to protraction; it nowhere assumes a nasal quality in the combined text; and it has hardly a trace of a proper pragrhya character: if, indeed, it be preceded by an uncombined vowel and followed by another vowel, it remains uncombined with the latter (by iii. 36, which see: only three such cases occur in our text); bnt, on the other hand, if preceded by a consonant, it combines regularly with a following vowel (of this also there are only four cases in AV.: see ii. 37). It seems as if the protraction must have heen made in order to give the word more substance as an independent pada in the disjoined text, it heing the only instance of a single short vowel possessing such a value; and as if the nasalization and addition of iti were intended to mark it more distinctly as an exceptional case, requiring a different treatment in the sanhitâ-text. Panini (i. 1. 17, 18) allows it to be read either u or ûn.

The treatise now goes on to detail the other cases of pragrhya final vowels.

्रइकारोकारी च सप्तम्यर्थे ॥ ७४ ॥

74. Final \hat{u} and \hat{u} are also pragrhya, in a form having a locative sense.

The instances cited by the commentator are ashirî padam krnute agnidhâne (vi. 27. 3: the Rig-Veda, in the corresponding passage, has the proper locative form, ashiryam), ato jâtâso dhârayanta urvî (xviii. 1. 32), mahî no vâtâh (xviii. 1. 39), and tanû daksham a suvatâm (iv. 25. 5). This last, however, is a doubtful case, since the word tanû may quite as plausibly, or more so, be taken as nominative dual, 'their very selves.' A more unequivocal case of û is mâyû in xviii. 4. 4, and it is the only one which I have noted in the text. There is also a single case of a locative in î not given by the commentary: it is abhihrutî, in

vi. 3. 3. As counter examples, of final i and \hat{u} in other than a locative sense, and therefore not pragrhya, the commentator offers dhiti $v\hat{u}$ ye (vii. 1. 1), tasyà 'mû sarvà (xiii. 4. 28). Of cases analogous with the former of these, where the i represents an instrumental case, there are several others in the text, as vii. 48. 1, 77. 1; ix. 9. 8.

The pada-text carefully notes these locatives in i and û as pragrhya, in the usual manner, by writing an iti after them: thus, âshtrî iti, urvî iti, tanû iti, etc. The commentator, in citing the several passages, under this and the following rules, always repeats at the end of each citation the pragrhya word, in its pada form, or with iti appended: I

have omitted such repetitions, as unnecessary here.

A corresponding rule in the Rik Pr. is found in i. 18 (r. 72, lxxiii): also in Pâṇini, i. 1. 19. The Vâj. Pr. notes no such cases as those to which this rule applies: and the Tâitt. Pr., instead of classifying and defining the pragrhya terminations according to their grammatical values, describes them all in an entirely empirical way (in iv. 1-54), by their position and surroundings, whence its rules do not generally admit of detailed comparison with those of the other treatises.

द्विवचनात्ती ॥७५॥

75. The same vowels, \hat{i} and \hat{u} , are pragrhya as dual terminations.

The commentator's illustrations are kena parshnî âbhrte (x. 2. 1), indravâyû ubhâu (iii. 20. 6), ubhâv indragnî â bharatâm (v. 7. 6).

Corresponding rules are Rik Pr. i. 18 (r. 71, lxxii) and Vaj. Pr. i. 93; both of them include also the cases noted by our treatise in the next following rule.

र्कार्श्व ॥ ७६॥

76. As is also e.

The commentator cites atrà dadhete (v. 1. 3), rodhacakre vàvrdhete (v. 1. 5), sam pitarâv rtviye (xiv. 2. 37).

ग्रस्मे युष्मे वे मे इति चोदात्ताः ॥ ७७ ॥

77. Also the words asme, yushme, tve, and me, when accented.

The specification "when accented" is, of course, meant only for the two latter of the words named, as the others would never occur otherwise than accented. Of the four, yushmé and mé never occur in the Atharvan text: $tv\acute{e}$ is found once, in a Rik passage (AV. v. 2. 3 = RV. x. 120. 3), and also, according to the manuscripts, in viii. 9. 9, twice repeated, and each time written in the pada-text $tv\acute{e}$ iti, as a pragrhya: but the accent and the addition of iti are hardly to be regarded otherwise than as a blunder of the tradition, since the word is evidently the enclitic or accentless tva of the Vedic language: no forms of this calcitic pronoun are found elsewhere in the Atharvan. The fourth, $asm\acute{e}$,

is also hardly an Atharvan word. It is found in three Rik passages, viz. iv. 21. 1 (RV. vi. 28. 1), xviii. 1. 3 (RV. x. 10. 3), 42 (RV. x. 17. 8): in another passage (iv. 31. 3), where the Rik (x. 84. 3) reads asmé, all the Atharvan manuscripts have asmá'i, which has been altered to asmé in the edition, in obedience to the requirement of the sense, and the authority of the Rik reading. Another precisely similar case is xix. 40. 4 (RV. i. 46. 6). The only passage where the Atharvan gives asmé independently is v. 1. 3, where all the manuscripts except P. and M. (copies of the same original, by the same scribe) agree in reading it (pada asmé iti): here also, however, the edition reads asmá'i.

The commentator cites no instances, but says nigame yushmadbhya vibhakter ittvam ishyati: yushmakam: asmakam: tvam aham iti prapte:

asme yushme tve me iti ca vibhaktyadeçah kriyate.

The Rik Pr. (i. 19, r. 73, 74, lxxiv, lxxv) notes asme, yushme, tve, and ami as pragrhya: the third, tve, when accented, and not a member of a compound word. The Vaj. Pr. (i. 96, 97) notes asme, tve, and me, the latter when accented. Asme and tve are dealt with in Taitt. Pr. iv. 9, 10.

श्रमी बद्घवचनम् ॥७६॥

78. Also amî, as plural.

The examples cited by the commentator are ami ye yudham (vi. 103. 3), amî ye vivratâh (iii. 8. 5), and amî açaçre (not found in AV.). To explain the addition of the specification "as plural," he gives a counter-example, çamy atra, which is plainly one of his own fabrication; nor can I find that the text contains anything which should render that addition necessary. The Vâj. Pr. says (i. 98) "amî, when a word by itself;" the other treatises (R. Pr. i. 19, r. 73, lxxiv; Tâitt. Pr. iv. 12) see no reason for appending any such limitations.

निपातो ज्यृक्तो जनाकारः ॥७१॥

79. Also a particle consisting of an uncombined vowel, unless it be \hat{a} .

This rule is meant to apply solely to the particle o, composed of â and u, which is found in two passages of the text, viz. o cit sakhûyam (xviii. 1. 1) and crâtam havir o shu (vii. 72. 2), both of which are cited by the commentator: the pada-text writes the o in the usual manner of a pragrhya, viz. ó iti. To explain the addition of "unless it be â" to the rule, the commentator cites punar e'hi vâcaspate (i. 1. 2), where the pada-text reads, of course, â': ihi.

The form of this rule is not a little strange: why o should thus be made an exception from the next rule, and why, when there is no other particle, except á, composed of a single vowel, it should be treated as if one of a class, it is very difficult to see: we cannot help suspecting here the influence of the general grammar: compare Pân. i. 1. 14, the virtual correspondence of which with our rule is as close as possible. The Rik Pr. (i. 18, r. 69, lxx) has a similar precept.

म्रोकारालयः ॥ ८०॥

80. Also one ending with o.

That is to say, as we must infer from the preceding rule, and as the commentator fills out the ellipsis, a nipâta or 'particle,' having o for its This is a strangely inaccurate description: it was bad enough to have the upasarga or preposition a treated as a nipata by the last rule, when combined with u: but here we have nouns, verbs, prepositions, and particles all confounded together under the same name. The particles, it is true, greatly preponderate in number and in frequency: thus we have atho (about 130 times in the whole Atharvan text), mo (15 times), no (12 times), uto (7 times), and iho, yado, ango, evo, dosho (once each); but of prepositions we have o and upo (twice each), and pro (once); of verbs, vidmo, datto, atto (once each); and of nouns (pronouns), teno (twice), yo, and so (once each). In the form of the rule is perhaps to be seen again the influence of the general grammar: compare Pân. i. 1. 15. The other treatises are not open to the same criticism: the Rik Pr. (i. 18, r. 70, lxxi) declares pragrhya a final o, except of the first member of a compound; and the Vaj. Pr. (i. 94, iv. 89) constructs its rule in very nearly the same manner.

As regards the actual pragrhya character of these words, there are, among the nearly 200 instances of their occurrence, but 11 cases in which they stand otherwise than before a consonant or an initial a, and so have an opportunity to exhibit that character distinctly. These cases are: before a, xx. 127. 13; before i, vi. 14. 3, xiv. 2. 4, xx. 130. 17, 18; before u, xi. 6. 7, xii. 1. 7, 9; before e, ii. 9. 1, vii. 56. 5, ix. 8. 7. In xx. 130. 19, and only there, an initial a is absorbed by such a final o; on the other hand, in iv. 9. 3, the metre shows that such an absorption of an initial a must be made in reading, though it be not so written. In teno (ix. 1. 20) and yo (xi. 4. 9), the metre shows that the combined particle u must be separated from the final of the original word, and that the two must be read téna u and ya^{a} u.

The examples given by the commentary are dosho gâya (vi. 1. 1), ango nv aryaman (vi. 60. 2), atto havînshi (xviii. 3. 44), and datto asmabhyam (xviii. 3. 14).

म्रामित्रतं चेतावनार्षे ॥ ६१ ॥

81. Also a vocative ending in the same letter, before an iti not belonging to the text.

Literally, 'before an *iti* not coming from the *ṛṣhis*,' or authors of the hymns: that is to say, before the *iti* by which, as already remarked, a *pragṛhya* word is followed in the *pada*-text. The vocatives in o, from themes in u, are not in a single instance treated as *pragṛhyas* in the *sanhitâ* of the Atharvan, but are always euphonically combined with the following vowel.* In the *pada*-text, however, they are invariably

^{*} The cases are not numerous in which such a vocative occurs elsewhere than in pausa, before a consonant, or before an a; they are as follows: before a, v. 13. 5;

written as if they were pragrhyas, with the usual iti annexed. The object of this rule, then, is to teach that they are exempt from enphonic combination only in the pada-text, while in other situations they are to be treated according to the general euphonic rules (iii. 40, ii. 21). The Vâj. Pr. (iv. 89) has a rule corresponding with that of our treatise; it, however, seems to be inconsistent with a previous rule (i. 94), which teaches that a final o is pragrhya in general, and not before the iti of the pada-text alone. The usage of the sanhitâ-text is in accordance with the later rule, and not with the earlier, so far as I can judge from the passages which correspond with those of the Atharvan referred to in the marginal note: I am surprised that Weber has not taken any notice of this discordance between the text and the Prâtiçâkhya. The Tâitt. Pr. (iv. 6) says that o is pragraha when it is not the product of sandhi, and is followed by a or a consonant—which is a rather absurd way of saying that it is not pragraha at all in sanhitâ; since before a consonant its pragrhya character could not, and before a need not, appear. Rik Pr., after declaring the o of the vocative pragrhya (i. 18, r. 68, lxix), is obliged later (ii. 27, r. 52, clvii) to except it from the rule that pragrhyas are exempt from euphonic change, and to place it under the control of rules previously given for its combination with succeeding vowels. Finally, Panini (i. 1. 16) gives a rule precisely corresponding to ours, but gives it upon the authority of Çâkalya. This whole state of things is something very peculiar. Why, when the o of vâyo is really no more exempt from change than the e of agne, should it be regarded by all the pada-texts as a pragrhya, causing so much trouble to the different treatises to explain its treatment?

The commentator cites, as examples of the rule, tvayy udite pre "rate citrabhano: citrabhano iti (iv. 25. 3), yuvam vayo savita: vayo iti (iv. 25. 3), and manyo vajrin: manyo iti (iv. 32. 6). As counter-examples, to show that the vowel is unchangeable only before the iti of the padatext, he gives vaya ûtaye (iv. 25. 6), manya îdita (iv. 31. 4), and babhra a me criuta (v. 13. 5).

म्रार्ली इवादिधिवादितिः परः ॥ ६५॥

82. In ârtnî iva etc., the iti follows the iva.

This is a rule which concerns only the writing of the pada-text itself, and so, as dealing with a matter lying outside of the proper sphere of a Prâtiçâkhya, is extra-judicial, and has no correspondent in either of the other treatises. It grows out of the difficulty, in a few special eases, of combining two methods of writing usual in the pada-text. This text, in all the Vedas, always combines the enclitic particle iva, 'as if, like,' with the word to which it is attached, as if forming a compound with it, giving up often, in favor of this combination, the division which

before i, vii. 4.1; before i, iv. 31.4; before u, vi. 68.1, vii. 26.8 (bis); before u, iv. 25.6. In iv. 32.1, the final o absorbs a following initial a; everywhere else, it and the following a both remain unchanged.

¹ °वाहिति परः

would otherwise be made of a preceding compound: thus, uda-dhim (iv. 15. 6), but udadheh-iva (i. 3. 8). When, now, the iva happens to follow a pragrhya word, like artni, which ought to be followed in the pada-text by iti, in order to bring to light its pragrhya quality, what is to be done? shall we separate the two parts of the compound word—a thing unheard of elsewhere—and introduce the iti between them, writing ârtnî itî 'vâ "rtnî-iva? or shall we allow the iti to lose its proper function, but still be retained at the end of the compound, in order to eall attention to the pragrhya quality of the first member of the latter, and write artni ive 'ty artni-iva? The second of these two alternatives is the one adopted by all the pada-texts, and the one which our rule here teaches as to choose. The Atharvan text offers but four such cases, which, for once, are all cited by the commentator; they are as follows: artnî ive 'ty artnî-iva (i. 1. 3); gharmadughe ive 'ti gharmadughe-iva (iv. 22.4); nrpati ive'ti nrpati-iva (viii. 4.6); yame ive'ti yame--iva (xviii. 3. 38).*

अनुनासिको *ज्*तःपदे क्रस्वः ॥ ६३ ॥

83. A nasalized vowel occurring in the interior of a word is short.

Here we have the general fact laid down, and in the following rules, to the end of the section, are stated the exceptions to it. The Rik Pr., in one of its later books (xiii. 7-10), treats the same subject, and the commentator is at much pains (see Regnier's note to r. 22) to explain its introduction into the Prâtiçâkhya, into whose proper province such a matter does not enter. Our own commentator seldom troubles himself about little ineonsistencies and redundancies of this kind, which are exhibited by all the treatises; they aid in the general purpose of a Prâtiçâkhya, which is to preserve the traditional text of the school from corruption. Thus, the Tâitt. Pr. presents (xvi. 1-31) a complete conspectus of all the nasalized vowels, short and long, found in its text in the interior of a word, and again (xiii. 8-14), a detailed exhibition of all cases of occurrence of the lingual nasal, n.

The commentator cites a third time the whole series of instances given above, under rule 27, and repeated by him under rule 53.

दीर्घो नपुंसकबङ्गवचने ॥ ८४॥

84. In neuters plural it is long.

The commentator gives, as examples, parûnshi yasya sambhârâh (ix. 6. 1), yajûnshi hotrâ brûmah (xi. 6. 14), atto havînshi (xviji. 3. 44).

An equivalent rule is found in the Rik Pr. (xiii. 7, r. 22), which farther specifies that the theme ends in a spirant, and that the long vowel precedes the terminations si and shi. The Taitt. Pr., ignoring all help

^{*} I have given the words here in the full form in which the pada-text presents them: our commentator, in his citations, leaves off the repetition of the compound, writing simply artai ive 'ti, etc.

from grammatical categories in the construction of its rule, as is its custom, says (xvi. 14) that \hat{a} , \hat{i} , and \hat{u} are nasal before $\hat{s}i$ and $\hat{s}hi$ at the end of a word.

पांसुमांसादीनाम् ॥ ६५ ॥

85. Also in pânsu, mânsa, etc.

The commentator cites pânsûn akshebhyah (vii. 109. 2), mânsam mânsena (iv. 12. 4), çânçayena (vi. 129. 1 [should be çânçapena? the manuscripts blunder somewhat over the word, but W. E. and H. read distinctly çânçapena]), and çilâ bhûmir açmâ pânsuh (xii. 1. 26). To the words thus instanced I have only to add pânsure (vii. 26. 4), which may perhaps be regarded as virtually included in pânsu.

The form of this rule is quite peculiar, in that it cites two words,

instead of one, as heading of the gana.

कृतिगम्योः सित ॥ ८६॥

86. Also in a desiderative form from the roots han and gam.

Of desiderative forms from the root han the text furnishes us jighânsati (e. g. iv. 18. 3) and jighânsan (vi. 99. 2). From gam we have no such forms, unless, in xii. 4. 29, 30, we are to amend yadâ sthâma jighânsati into jigânsati, which would very much improve the sense, if I am not mistaken. Could we trust implicitly to the Prâtiçâkhya to include in its rules no forms not actually to be found in the Atharvan text, this passage would be a sufficient warrant for making the alteration suggested: but that is not the case, as the very next rule, for instance, notably shows. The reason why these two roots are thus put together as the subject of such a grammatical precept may be to be songht in the general grammar; compare the equivalent rule in Pâṇini (vi. 4. 16), which offers also the same technical term, san, for a desiderative form.

The commentary offers as examples the word jighânsati (e.g. iv. 18. 3), and the passage spoken of above, yadâ sthâma jighânsati; and, although our manuscript here reads, like those of the text, jighânsati, the absence of any other citation or fabricated illustration of desiderative forms from gam gives a degree of color to the conjecture that our

commentator may have meant to give jigânsati.

शान्मान्दानाम् ॥ ६७॥

87. As also from the roots cân, mân, and dân.

Of these three roots, only mân offers in the Atharvan text any forms falling under this rule. The commentator cites one of them, mimānsamānāh (ix. 1. 3): the others are mimānsamānasya (ix. 6. 24), mimānsitasya (ix. 6. 24), and amimānsanta (xii. 4. 42). The form mānsta (xi. 2. 8), as not being of desiderative origin, does not properly belong here, but, if genuine, should be included under rule 85: it may be a corrupted reading for mansta; we have the corresponding second per-

son, maisthás, in ix. 5. 4, and there also a part of the manuscripts (P. W. I.) read maistháh. For çan and dan the commentator evidently had no genuine instances at command, and he fabricates çî çansati, didânsati. Here also it is a suspicious circumstance that a rule of the general grammar (Pân. iii. 1. 6) groups these three roots together: although, it is true, for a different purpose from that which calls forth our rule.

वस्वतस्य पञ्चपद्याम् ॥ ८८ ॥

88. Also in a strong case from a theme in vans.

The strong cases (pañcapadî, 'five words or forms') are the masculine nominatives singular, dual, and plural, and the accusatives singular and dual. The suffix vans is that which forms the perfect active participle: it is called in Pâṇini by the same name as here, vasu. The commentary cites as instances pareyivânsam (xviii. 1. 49), praviçivânsam (iv. 23. 1), uttasthivânsuḥ (vi. 93. 1), and papivânsaḥ (vii. 97. 3).

ईयसश्च ॥ ८१ ॥

89. As also from a theme in îyans.

That is to say, in a strong case of a comparative of the ancient formation, or that produced by adding the primary suffix iyans to the, generally gunated, root. The commentator gives as examples greyân, greyânsâu, greyânsah; but the only strong case of this word occurring in the Atharvan text is greyânsam (xv. 10.2).

विदेश ॥ १०॥

90. As also from the root vid.

There are two damaging objections to be made to this rule: in the first place, it ought to be brought in, if at all, after rule 88, in order that vasvantasya as well as pañcapadyâm may be implied in it by inference from its predecessor; and in the second place, there is no need of any such precept at all, since there is no good reason why vidvân, the word to which it alone applies, should not be considered a vasvanta, and therefore regarded as disposed of by rule 88. The Hindu theory, indeed, does not regard vidvân as a perfect participle, and Pâṇini (vii. 1. 36) is obliged to teach that in it the perfect participial suffix is substituted for that of the present participle; and probably it is out of this circumstance that the introduction of the rule here in question has proceeded: yet, the substitution having been made, vidvân would have to be deemed and taken for a vasvanta, one would think, even by the Hindu theory itself.

The commentator gives all the strong forms of vidvân, of which only a part, however, are to be found in the Atharran, and then winds up with an actual citation; as follows: vidvân (e.g. ii. 1.2), vidvânsâu, vidvânsah, vidvânsam (e.g. ix. 9.4), vidvânsâu; vidvânsam vrâtyam (e.g. xv. 2.1).

पुंसश्च ॥ ११॥

91. As also from pumans.

The commentary instances the five cases of pumans to which the name pañcapadî belongs; only one of those to which the rule actually applies occurs in our text: pumân (e. g. i. 8. 1), pumânsâu, pumânsah, pumânsam (e. g. iii. 23. 3), pumânsâu. Then he adds a counter-example, to show that the rule is meant for the strong cases alone: pumsi vâi reto bhavati (vi. 11. 2).

Here ends the third section of the first chapter: the signature in the manuscript is prathamasya trityah pâdah: 91.

वर्णाद्न्यात्पूर्व उपधा ॥ १२॥

92. A sound preceding a final sound is called its upadhâ.

This is simply a definition of the term upadhà, and, to illustrate the rule, the commentator cites the two later rules, nāmyupadhasya rephah (ii. 42) and ākāropadhasya lopah (ii. 55), in which the term is employed. The Vâj. Pr. (i. 35) has precisely the same definition. In the Rik Pr. the word has a more general use, as 'preceding letter or word' (upa-dhā, 'a setting against or next to'): it is probably on account of this less restricted signification current in some schools that the two treatises first spoken of deem it necessary to limit the term by a specific definition. The Tâitt. Pr. does not employ it at all.

स्वरो ज्तरम् ॥१३॥

93. A vowel is a syllable.

The precise scope of this rule it is not easy to determine; it seems to be rather a general and theoretic doctrine than a precept which enters in any active and practical manner into the system of rules of our treatisc. The Vâj. Pr. and Rik Pr. have similar rules, and that of the former (i. 99) is expressed in identical terms with our own; it receives an easier interpretation than ours by being placed at the head of the rules for syllabication, which correspond to our rules 55-58, above. The Rik Pr. (xviii. 17, r. 31) states more fully that a vowel, whether pure, or combined with anusvara, or combined with consonants, is a syllable; as also (i. 4, r. 19, xx) that both the short and the long vowels are syllables; making the former declaration an introduction to the rules for syllabication and quantity, and the latter, to the briefer treatment of the same subjects in the first chapter. We may perhaps regard our rule as a virtual precept that the accentuation, which in later rules (iii. 55 etc.) is taught especially of the vowels, extends its sway over the whole syllable: or, on the other hand, that the accents, which in rules 14-16 above were declared to belong to syllables, affect especially the vowels. With the subject of accent the commentator seems, at any

rate, to bring it into special connection. Omitting his usual explanatory paraphrase (a small loss: it would doubtless have been svaro ksharam bhavati), he proceeds at once to give an exposition, of which a part occurs again at the close of the third section of the third chapter; it reads, unamended, as follows: kim aksharasya svaryamanasya svaryate: arddham hrasvasya pâdo dîrghasye 'ty eke: sarvam iti cânkhamitrah (under ii. 6 and iii. 74, çânkhamitrih): aksharasyâi 'shâ dhânam (vidhâna) vidyate yad yad virasvarâbhâvah (yad yad viçvarîbhava: the passage goes no farther under iii. 74): svaram aksharam ity ahuh: svarâd anyat vyanjanam sarvam prthak varnasâmânyam dvyaktâmjyate budhâih. I translate, in part, as follows, not without some misgivings: 'what part of a circumflexed syllable is circumflexed? some say, half a short one, quarter of a long one: Caukhamitri says, the whole: here is found no rule for a syllable [hrasva and dirgha are said of vowels only: see note to r. 51, above]; since, in each case, the vowel alone is contemplated [??]: now the vowel is declared to be the syllable,' and hence, perhaps, what is taught of the vowel must be understood to be said of the whole syllable. Yet all this would appear to be rendered unnecessary by the rules for syllabication, which, as we have seen, hardly have a meaning if they do not imply that each consonant shares in the accentuation of the vowel to which it is declared to belong.

सोष्मणि पूर्वस्यानुष्मा ॥ १८॥

94. The sound preceding an aspirate becomes a non-aspirate.

The proper application of this rule, within the sphere of the Prâticakhya, is only to cases of the doubling of the first or second consonant of a group, by the varnakrama, as taught in rules iii. 26 etc., yet its form of statement is general, and there can be no doubt that it should apply to all cases arising in the course of derivation and inflection, and that forms such as mrdhdhi, containing a double lingual sonant aspirate, are strictly excluded by it. Such forms, as is well known, occur in almost all the Vedic mauuscripts, and those of our own text offer several instances of them;* which, however, we have not hesitated to amend in the printed text (except in ii. 5. 4, where the correction has been accidentally omitted) to ddh.

Corresponding rules in the other Pratiçakhyas are: Rik Pr. vi. 1 (r. 2, ccclxxix), aud xii. 3 (r. 9); Vâj. Pr. iv. 106; Tâitt. Pr. xiv. 5: that of the Vaj. Pr. and the former one of the Rik Pr. are restricted in terms to the cases of duplication arising under the rules of the varnakrama;

the others are general precepts, like our own.

The examples given by the commentary are such as illustrate the application of the rule to forms of derivation and inflection, as well as of krama; they are iddham (sam-iddham, vii. 74.4), dugdham (e. g. x. 6.

^{*} The details are as follows: ii.5.4, all the MSS. dhdh; vii.46.1, all do.; vii. 97. 7. E. I. do., the rest dh; xi. 1. 29, Bp. dh only, all the rest dhdh; xi. 1. 31, first time, all dhdh: second time, Bp. dh, the rest dhdh; xii. 2. 19, B. dhdh, all the rest dh; xviii. 3. 42, all dhdh; xviii. 4. 1 do.; xviii. 4. 56 do. The true reading, ddh, is not given in a single instance by any of the MSS.

31). nanv à ruruddhre (iv. 31. 3: ordinary reading rurudhre; but in this instance, as occasionally elsewhere, the pada manuscript obeys the rules of the krama, and gives ruruddhre), yo daddhre (xviii. 3. 63, dadhre), valagam và nicakkhnuh (x. 1. 18, nicakhnuh). The commentator then once more commences his citations from his metrical authority, and gives the verse prathamâç ca dvitîyânâm samyoge pratyanantaram: trityâç ca caturthânâm etat sarvatra lakshanam; 'first mutes are substituted for seconds, when directly preceding the latter in a group; and thirds in like manner for fourths: this is a rule of universal application.'

श्रानर्येण वृत्तिः ॥ १५॥

95. Conversion is according to propinquity.

That is to say, when any sound is ordered to be changed into another, of any class or description, we are to convert it into that one which is nearest to it, in situation or in character. The commentator, after his customary repetition of the rule, by way of paraphrase, with the bare addition of bhavati, proceeds, without any farther explanation, to cite three rules in the interpretation of which it needs to be applied. of these is ii. 31, to the effect that m before a mute is converted into a letter of the same position with it: which, by this rule, must be understood, m being a nasal, to mean the nasal letter of the series, and not either of the non-aspirate or aspirate surds or sonants. The second is ii. 40, by which the visarjaniya is to be made of like position with a following surd mute, and, by our rule, still a spirant of like position with the latter. The third example is iii. 39, which prescribes the conversion of a vowel into a semivowel; and this semivowel, by our rule, must be that of the same class with the vowel: we are not to change i into v, or w into r, etc. There are other rules to which the present precept applies; so, in explaining the one next preceding, it may be looked upon as determining the non-aspirate into which the duplication of an aspirate is converted to be surd or sonant according as the aspirate is surd or sonant (a matter which, in the other treatises, is expressly prescribed in the rules themselves, and not left for inference): and possibly its bearing upon that rule is the reason why it is introduced here, rather than elsewhere in the treatise. Similar prescriptions are found in the Rik Pr. (i. 14, r. 56, lvii) and the Vâj. Pr. (i. 142).

खएवखा३र खैमखा३र रत्याकारादिकारो जनुदात्तः॥१६॥

96. In khanvakhâsi and khâimakhâsi, the i following the â is unaccented.

This is a special rule, evidently intended to guard against an apprehended mispronunciation. The two words in question (iv. 15. 15) are meant for imitations of the croaking of frogs, and are probably for khanvakhâi, khâimakhâi, with protraction (pluti) of the final syllable: and it is feared that, without particular caution, the final i will be made to

share in the irregular accent which falls upon the protracted vowel, both words being doubly accented, on the first and third syllables.*

म्रवशा म्राबभूवाँ इतीतावेकारो *प*प्तुतः ॥१०॥

97. In avaçã and â babhuvãn, with iti, the e is not protracted.

The commentator, after paraphrasing the rule, adds simply avage 'ti, babhûve 'ti. The two passages referred to are found at xii. 4.42 and x. 2.28, and they read, in the pada and sanhitá texts, as follows:

कृ वृशा।र्याम्।१॥ अवंशा।१॥ रति॥—६ वृशेया१मवृशेति। कृ पुर्रषः। आ। बुभूवाँ ॥ ४। १॥—६ पुर्रष् आ बंभूवाँ १।

They are not analogous cases, as regards the action of the present rule, since one of them actually contains an iti, while, in the other, no iti follows the protracted vowel in either the sanhitâ or the pada texts, but only in the krama-text (see the note to rule 70). All the sanhitâ manuscripts, however, observe the precept of our treatise in making the combination of avaçâ3 with the succeeding word, and accordingly its protraction, which is assured by this rule and by i. 105, and which is exhibited by the pada-text, entirely disappears in sanhitâ—a strange imperfection of the latter text, and one which, if it did not exhibit itself in all the manuscripts, we should be very loth to introduce, upon the sole authority of this rule of the Prâtiçâkhya.

By Vâj. Pr. iv. 88, a final pluta vowel retains its pluti before iti, and the closing krama-pada of our second verse would be babhûvân iti babhûvân, instead of babhûve'ti babhûvân. Neither of the other Vedic texts appears to present any case analogous with the other one which forms the subject of our rule.

forms the subject of our rule.

व्यञ्जनान्यव्यवेतानि स्वरैः संयोगः॥१०॥

98. Consonants not separated by vowels form a conjunction.

With this definition of a samyoga, a conjunction or group of consonants—which, as already noticed, is much more comprehensive than that which would seem to be implied in the definition of samyukta given above, in rule 49—agree those of the other treatises (R. Pr. i. 7, r. 37, xxxviii; V. Pr. i. 48: T. Pr. offers nothing corresponding).

The commentator's paraphrase of the rule, with the accompanying examples, forms a verse, as follows: vyanjanany avyavetani svaraih

वायुवा३६ वैमुवा३६ मध्यं तर्रारे।

^{*} E. I. and H. read the first word khanvakhá'3i, with a single accent only, and the printed text has—wrongly, as it seems to me—followed their authority instead of that of the other manuscripts: and also, by some inexplicable oversight, signs of accent have become attached to the pluti figures, as if the preceding a's were circumflex, and the following i's acute. The line ought to read as follows:

samyogo bhavati: agnir indraç ca tushtaç ca vṛkshaḥ plaksho nidarçanam. The word tushta is not found in the Atharvan, nor plaksha, excepting in the form plakshāt (v. 5. 5).

समानपदे जनुत्तमातस्पर्शाउत्तमे वमैर्यवासंख्यम् ॥११॥

99. After a non-nasal and before a nasal mute, in the same word, is made the insertion of yamas, suited to each case.

The commentator treats this intricate subject with the utmost possible brevity, merely paraphrasing the rule, as follows: samānapade 'nuttamāt sparçāt: uttame paratah sparçe yamāir vyavadhānam bhavati: yathāsamkhyam:—and adding as instances sapatnam (vii. 109. 3), gradhnāti (not found in AV.; the word most nearly resembling it is crathnānah [xiv. 1. 57], for which it may not impossibly be a false reading of the manuscript), yajāah (e. g. iv. 11. 4), and grbhņāti (MS. grhņāti, which is no example of a yama: the only form in the AV. admitting yama is grbhņāmī [iii. 8. 6]). Unfortunately, we cannot be permitted to dismiss the subject in such an off-hand manner, but must endeavor to ascertain, by the aid of the other treatises and of phonetical theory, what these yamas are.

We have already seen (under rule 43) that the euphonic system of the Prâticâkhya does not allow one mute to follow another by a simple consonantal conjunction, but regards the former of the two as suffering a modification which robs it of part of its distinct quality. Now we have the farther direction, which must be taken as to that extent limiting the former, that, within the limits of a simple word, if the latter consonant is nasal and the former not so, there is interposed between the two a yama, or 'twin' to one of the other letters. This is all that our treatise says of the yamas: none of its other rules mention them, although one or two may be regarded as referring to them, and arc so interpreted by the commentator—from whose explication of rule 26, above, we have learned that they are of nasal character. The Taitt. Pr. is not more explicit: it merely says (xxi. 12, 13): "after a mute not nasal, when followed by a nasal, are inserted, in each several case, nose-sounds (nasikya): these some call yamas." The Vaj. Pr., where it teaches the occurrence of the yamas (iv. 160), ealls them vicheda, 'separation,' a word which it does not elsewhere employ; its doetrine is: "within a word, a non-nasal before a nasal suffers separation"—that is, it is to be inferred, a separation or division of itself into two parts, which are as twins to one another and the yamas have elsewhere been stated to be nose-sounds (i. 74), and formed by the root of the nose (i. 82). The Rik Pr. is decidedly more elaborate in its description. After stating (i. 10) that the yamas are nose-sounds, it goes on to say (vi. 8-10) that the non-nasal mutes, before following nasals, become their own "twins"—that is to say, if we rightly understand it, each becomes a pair of twins of its own nature; what is left of the original mute being one of the pair, and its nasal counterpart the other; the latter being especially the yama, or the twin which is added to make up the pair. The yama is then declared to be similar to its original (prakrti); or, it is said, there is an audible utter-

ance in the mouth, of the same quantity with the yama; but the office of the suffixed sound is not diverse from that of its original. All this seems intended to be very explicit, but it is so far from being perspicuous that it has led both the editors of the Rik Pr., or allowed them to fall, into the very serious error of supposing the yama to be something prefixed to the non-nasal mute, instead of interposed between it and the following nasal. Phonetic analysis does not, as it seems to me, help us to recognize the yama of the Hindu grammarians as any necessary accompaniment of the utterance of a mute and nasal, but will lead us to a plausible explanation of what they must have called by the name.* nasal is a sound in the production of which there is an expulsion of intonated breath through the passages of the nose, at the same time that the mouth organs are closed in the position in which an ordinary mute is uttered; in any language, then, there will naturally be as many nasals as there are classes of mutes, and the unnsually complete alphabet of the Sanskrit language recognizes and distinguishes them all. If, now, we pronounce a t before a following m, as in âtma, the t, in the first place, suffers abhinidhana, losing the explosion which is essential to its full utterance: the organs pass, without intervening unclosure, from the dental contact to the labial contact, by which latter the m is produced, with expulsion of sound through the nose. By taking sufficient pains, we can make the nasal utterance so closely simultaneous with the labial explosion that nothing shall be audible except the t and the m. But we may also commence the nasal sound a perceptible interval before the explosion, and we shall even be most likely to do so in a labored utterance: if it be made to begin after the labial position is taken up, the nasal resonance is merely a preface to the m, and a dwelling upon it before the explosion: but if we utter sound through the nose before transferring the organs from the dental to the labial contact, we give origin to a kind of nasal counterpart to the t, as a transition sound from it to the m. If this is not the yama of the Hindu grammarians, I am ntterly at a loss to conjecture what the latter should be. The theory which recognizes it might be compared with that which, in rule 50, above, taught a general assimilation of the former consonant of a group, in its final portion, to the latter; it is still more nearly analogous with the surd which, by ii. 9, is inserted between a final nasal and a following sibilant: this arises, like the yama, by an exchange of the emission (the anupradana) belonging to the former letter for that belonging to the latter before the transfer of the organs from the one position to the other; and the t thus introduced, for example, between a n and a s has just as good a right to be called the yama or counterpart of the former letter, as has the n inserted after t before m. That the ntterance of the intermediate sound thus described is not necessary, and can readily be avoided is no objection to our interpretation of the Hindu theory: in the studied explicitness of the scholastic utterance, and with a phonetical science which delighted itself with subtleties, and of which the strong tendency was to grow from descriptive into prescriptive, such

^{*} That Müller pronounces the theory (p. cxxii) "perfectly clear and physiologically comprehensible" must go for nothing, considering his entire misapprehension of the situation and character of the yama.

transition sounds would naturally enough rise to a distinctness and a generality of occurrence much beyond what they were originally entitled to. A much more serious difficulty is, that the theory of the vama allows its occurrence between an aspirate mute and a nasal: and we should suppose that the unclosure and brief emission of unintonated breath constituting the aspiration would form an impassible barrier between the two letters, the nasal utterance being unable to precede it, and the position of contact of the former letter to follow it, so that no nasal counterpart to the former letter could be uttered. I see no way of getting over this difficulty, excepting by supposing an inaccuracy in the analysis of the Hindu phonetists: a serious charge. it may seem, but one of which I should be glad to see them relieved by any other intelligible explanation of the yama. If the whole theory of the phenomenon were more solidly founded and more accurately worked out by them, I should not think they need have explained it in a manner to cause their interpreters so much perplexity. The perplexity, indeed, is not confined to the modern expositors: the ancient commentators themselves (see Müller, p. cxxiii) seem to have been somewhat in doubt as to how many different yamas there are, whether twenty, one for each of the non-nasal mutes, or a smaller number. The orthodox doctrine of the Rik Pr. seems to be that of twenty: but its commentator says that there are only four; one for all the first mutes, one for all the seconds, and so on; and the commentary to Taitt. Pr. xxi. 12 supports the same view.* This latter view, however, appears to me peculiarly indefensible: I cannot at all see how the nasal counterparts of the tenues of the five mute series should be identical with one another: nor, on the other hand, how they should be physically different from the yamas of the following mutes of each series respectively; although it might well enough be loosely said, considering their title of "twins," that there are as many of them as of the sounds to which they sustain that relation. Physically, it would seem necessary that a nasal transition-sound between two mutes should be of the nature either of the first or of the second: if of the second, and that second a nasal, it would be indistinguishable from it; if of the first, it would be identical with the nasal of that series (except as being abhinihita, or wanting the explosion), and so the same for all the mutes of the series. The doctring of our own treatise upon this point is not entirely clear, since its expression, yathasamkhyam, 'according to their number,' might possibly be taken as referring either to the non-nasal or to the nasal mutes: vet it is, without much doubt, to be understood of the former; and we are to allow theoretically the existence of twenty yamas, although only thirteen of them—viz. those of k, kh, g, gh, c, j, t, th, d, dh, p, bhoccur in the Atharvau text.

general.

^{*} Weber (p. 125) suggests that the discordance among the authorities upon this point may have grown out of the circumstance that, in speaking of the yamas, those of a single series of mutes are sometimes taken as representatives of the whole class, and treated as standing for them all. This seems very plausible: but we can hardly acquit the later expositors of having been misled by this usage into the belief that there are only four yamas, and not twenty.

For the details, see the additional note on the consonantal combinations in

In the examples which he gives under this rule, the commentator does not attempt to write the yamas. Above, under rules 13 and 26, where the yamas were instanced, they were—taking those of the guttural mutes as representatives of the class—written by the mutes with an anusvāra sign above: viz. \$\frac{1}{1} \cdot \frac{1}{1} \cdot \fra

क्कारात्रासिक्येन ॥ १००॥

100. After h is inserted in like manner a nasikya before a nasal mute.

The commentator paraphrases with hakârât nâsikyena samânapade vyavadhânam bhavati; and adds as illustrations a part of the words already once given, under rule 58: viz. prâhṇaḥ, pârvâhṇaḥ, aparâhṇaḥ,

apa hmalayati, vi hmalayati, vi hnute, brahma.

The Tâitt. Pr. (xxi. 14) teaches the insertion of a nâsikya after h and before a following nasal in terms nearly equivalent to those of our own rule. The Rik Pr. (i. 10, r. 48, xlix) and the Vâj. Pr. (i. 74, 80) describe its mode of pronunciation, as a nose-sound; and the latter, in its latest portion (viii. 28), speaks of it again among the constituents of the spoken alphabet; but, strangely enough, neither of them gives any

rule respecting its occurrence.

What the sound may be which is thus taught to form the step of transition from the aspiration to a following nasal, it is hard to say with confidence. I can only conjecture it to be a brief expulsion of surd breath through the nose, as continuation of the h, before the expulsion of the sonant breath which constitutes the nasal. The pure aspiration h is a corresponding surd to all the sonant vowels, semivowels, and nasals of the alphabet: that is to say, it is produced by an expulsion of breath through the mouth organs in any of the positions in which those letters are uttered; it has no distinctive position of its own, but is determined in its mode of pronunciation by the letter with which it is most nearly connected. Thus the h's of ha, of hi, of hu, and those heard before the semivowels w and y in the English words when and hue, for instance, are all different in position, corresponding in each ease with the following vowel or semivowel. H is usually initial in a word or syllable, and is governed by the letter which succeeds, and not by that which precedes it: but where it occurs before another consonant in the middle of a word—which is always its position in the Vedas before a nasal—the question may arise whether it shall adopt the mode of utterance of the letter before or after it: whether in brahma, for example, we divide brah ma, and pronounce the h in the position of the

a, or bra hma, and in the position of the m, through the nose. Aecording to the Hindu method of syllabication (see rule 56, above), the former is the proper division, and the Hindu phonetists doubtless regarded the h as belonging with and uttered like the a; and noticing at the same time the utterance, scarcely to be avoided, of at least a part of the h in the position of the m, they took account of it as a separate element, and called it nasikya.

रेफाद्रष्मणि स्वरपरे स्वर्भिक्तरकारस्यार्धं चतुर्थमित्येके अन्यस्मिन्व्यञ्जने चतुर्थमष्टमं वा ॥१०२॥ [॥१०१॥

101. After a r, and before a spirant which is followed by a vowel, is inserted a svarabhakti, half a short a: some say, a quarter.

102. Before any other consonant, the *svarabhakti* after r is a quarter or an eighth of a.

The two rules are stated and explained separately in the manuscript, but I have put them thus together for the convenience of treating the whole subject of the svarabhakti at once.

The term svarabhakti signifies a 'fraction or fragment of a vowel,' and the theory evidently is, that a r cannot be pronounced in immediate combination with any following consonant: there must always be slipped in between them a little bit of a transition-vowel, varying in length, according to different authorities, from a half to an eighth of a mora, and longer before a sibilant or h, if these be followed in turn by a vowel, than before other consonants; while in quality it coincides with the a—that is to say, undoubtedly, with the a samvrta (rule 36, above), or the neutral vowel. The theory is this time, at least, perfectly intelligible, and any one may readily convince himself by trial how very easy it is to introduce such a vowcl-fragment after a r, if he pronounce the latter far enough forward in the mouth for it to require to be trilled -and perhaps especially, if he be one to whom the smoother utterance of the r, farther back, is more natural. The reason for distinguishing the case of a following spirant—and that, too, only when followed by a vowel-as requiring a longer insertion, is not so clear, and I confess myself unable to discover the pertinence of the distinction: it is, however, a marked and important one to the apprehension of the Hindu phonetists, as will appear by a comparison of the teachings of the other treatises.

The Vâj. Pr. (iv. 16) restricts the occurrence of anything like svarabhakti to cases in which a spirant is the second member of a group, and is itself followed by a vowel; but it allows it both after a r and a l (see above, under rule 46), and moreover defines it as being the r and the l-vowels respectively. Considering, however, that the same authority defines these vowels as ending each with quarter of an a (see above, under rule 37), its description of the character of the insertion eannot be regarded as differing essentially from that of our own treatise. The doctrine of the Tâitt. Pr. is very nearly the same: it teaches (xxi.

15, 16) that when r and a spirant form a group, a r vowel-fragment (rephasvarabhaktih) is inserted, except when the spirant is subject to displication (i. e., is not followed by a vowel) or is followed by a "first" mutc: while the commentary explains that a fragment of that vowel which is akin with the r, or the r-vowel, is meant. According to the Rik Pr. (vi. 13, 14), the svarabhakti, which is described as being like the r-vowel (rkaravarna), is inserted between a r and a following consonant when the former is preceded by a vowel: if the following consonant is a spirant, and itself followed by a vowel, the svarabhakti is the longer one, which had before been defined (i. 7, r. 33, xxxiv) as being a half-mora in length; in other cases, the shorter one, of half this length (i. 7, r. 35, xxxvi), is interposed. The accordance of this with the doctrine of our treatise is as close as possible. But the Rik Pr. also allows a svarabhakti between a sonant letter and a following mute or spirant; and it then farther cites the views of different authorities, of whom some deny the existence of the svarabhakti altogether, others permit it only after a r, and others only before a spirant not duplicated (this is very nearly the doctrine of the Vaj. Pr. and Taitt. Pr.), pronouneing it to agree in character with either the preceding or the following vowel.

As we shall see hereafter (under iii. 46), the manuscripts of the Atharvan acknowledge the virtual correspondence of the r followed by the longer svarabhakti with the r-vowel, by writing the r instead of r, where the former comes before a spirant, and should be, by iii. 46, con-

verted into r after a or \hat{a} .

Our commentator gives us, under rule 102, the instances aryamá (e. g. i. 11. 1), parva (i. 12. 2), and dharmana (e. g. vi. 132. 1)—the manuscript not attempting to write the interposed vowel-fragment. Under rule 101 he cites no examples, but, after the baldest possible paraphrase of the rule, proceeds to quote from other authorities, as follows: apara áha: rkárasvarabhaktih: ûshmasu svarapareshv ardhákáravarno vyañjanam cesha iti: 'another has said, "a vowel-fragment of the r-vowel;" "before spirants followed by vowels is heard half an a-vowel; the rest is consonant."' These appear to be the dicta of two different teachers. Next follow several verses, a part of which are of a character which would render their introduction under rule 37, above, more appropriate, while one line, the second, belongs rather under rule 98; they read: rephâd anyad rkâre yat tasyâ 'rdham pûrvasasvaram: vacanena vyavetânâm samyogatvam vihanyate: rvarne 'pi tu rephasya câ 'rdhamâtrâ pratijňaya: ardhamatram svaram vidyat sa cai 'vam kriyate punah: tân hrasvobhayatah kuryâd yathâ mâtrâ bhaved iti: darço varsham tatha rtavah: 1 barhiç câ 'tra nidarçanam: etâm ṛtim vijânîyât svarabhaktir yada bhavet; 'half of what there is in the r-vowel different from r is of the same character with the preceding vowel. Of consonants separated by audible sound, the conjunction is destroyed. In the r-vowels there is, by express rule, half a mora of r; half a mora is to be recognized as vowel, and that, again, is thus managed: put the parts upon both sides of the short vowel, so as to make out a mora: exam-

^{1 ! -}MS. tathâtasah.

ples are darça, varsha, tatha rtavah, barhih: know this to be the way when a svarabhakti is to be produced.' I trust that either the commentator or the manuscript, and not the translator, is responsible for the inconcinnity of this passage.

तदेव स्फोटनः ॥१०३॥

103. Of the latter value is sphotana.

That is to say, if I do not misapprehend the meaning of the rule, sphotana, like the shorter svarabhakti, has a quarter or an eighth the quantity of a short a: or it may be that the emphatic eva would restrict the reference to the latter value, the cighth, alone. The commentator, as so often, gives not a particle of assistance in comprehending the rule. He simply paraphrases, as follows: tad eva sphotano vyañjako bhavati—explaining sphotana by its synonym vyañjaka, 'manifester'—and then cites the same instances of sphotana which are given later, under ii. 38. For the doctrine of sphotana, see the rule last mentioned, and the note upon it. The subject is not disposed of here, because the sphotana, unlike the other insertions treated of in this part of the work, arises only in the combinations of the phrase, when a final mute comes in contact with a following initial mute of an earlier series or varga.

पूर्वस्वरं संयोगाविघातश्च ॥ १०४ ॥

104. These belong to the preceding vowel, and do not effect the dissolution of a conjunction of consonants.

There is something wrong with the commentary to this rule; apparently we have a repetition of a part of the commentary to rule 102. with the loss of what should properly be given here: it reads as follows: pûrvapûrvasvaram ca tad bhavati: samyogasya ca vighatah yat tat rephât akârasya caturtham vâ bhavaty ashtamam vâ: aryamâ parva dharmana. It furnishes us, it will be seen, no hint as to how far back the teachings of the rule apply. I presume, however, that they may be properly considered as extending themselves to all the phonetic insertions taught in rules 99-103: all those, in the division of the word into syllables, are to be reckoned as belonging to the preceding vowel, and sharing in its accent; and whereas it might seem that the insertion of the vowel-fragment, and of its kindred sphotana, dissolved the conjunction of the consonants between which they were inserted-since, by rule 98, a conjunction of consonants can only subsist where there is no interposition of vowels-the contrary is expressly declared to be true. This would regard pûrvasvaram as belonging to some such word as angam understood, and used in an indistinctive or collective manner of all that precedes. It may be, however, that the specification applies only to svarabhakti and sphotana, and that the neuter singular form of purvasvaram is owing to its agreement with one of the words denoting the quantity of those insertions, caturtham, ashtamam, etc. The Rik Pr. specifies only of the svarabhakti (i. 7, r. 32, xxxiii) that it belongs to the previous syllable; the Vâj. Pr. (i. 103) says the same thing of the yama alone; while the Tâitt. Pr. (xxi. 6) teaches that the svarabhakti belongs to the preceding syllable, but (xxi. 8) that the yamas and nasikya go with the following one. The Rik Pr. alone, besides our treatise, thinks it necessary to say (vi. 10, r. 35, cccxi) that the svarabhakti does not dissolve the conjunction: in the Vâj. Pr. it is left to be pointed out by the commentator (see Weber, p. 217).

खाव्यवा३र् विम्खा३र् मध्यं तद्वि [iv. 15. 15]। र्दं भूया३ र्दा३मिति [ix. 6. 18]। ऊधी नु सृष्टा३स्तिर्यङ् नु सृष्टा३ सर्वा दिशः पुरुष आ बंभूवाँ३ [x. 2. 28]। पर् ाञ्च-मोद्नं प्राशी३ः प्रत्यञ्चा३मिति [xi. 3. 26]। वमीद्नं प्राशी३स्वामीद्ना३ र्दि [xi. 3. 27]। वशेया३मवशे३ति [xii. 4. 42]। यत्तदासी३दिदं नु ता३दिति [xii. 5. 50]। रित सुतानि ॥ १०५॥

105. : these are the cases of protracted vowels.

I have taken the liberty of separating by a stroke the different passages rehearsed in this rule; the manuscript puts them all in sandhi together. One or two of the signs of protraction have also been restored which the manuscript has accidentally omitted. On the other hand, I have retained the sign of protraction given by the manuscript to the second case in the last passage but one, avages'ti (the MS. writes avageti3), although it is not written by the sanhita codices of the Atharvan text, and is forbidden by rule 97, above. Finally, I have added the accent marks which belong to each passage.

The commentator does not give any paraphrase of the rnle, nor does he repeat it at the end of his exposition, yet I cannot question that it is actually the closing rule of the chapter, and not a gratuitous appendix of the commentator's own addition. He discourses respecting it more liberally than usual, in this wise: kimarthah paripāthah: itu uttaram adhikam: etāvat svārtho 'pi: bahuvidhās trividhāh plutayo bhavanti: svaraparā abhinishtānaparā vyanījanaparāh: tāsām yāh samānāksharaparās tā itāv aplutavad bhavanti itāv aplutavad bhavanti; 'for what reason is this enumeration made? because any other instance than these is in excess: within these limits the protracted vowel is pointed out by its own meaning (?). Protractions are various; namely, of three kinds: those which affect a syllable ending in a vowel, in visarjanīya,* and in

^{*} For the use of the term abhinishtana for visarjaniya—of which this is, I believe, the only case which our commentary affords—see rule 42, above, and the note upon it.

a consonant, respectively;* among these, those which affect syllables ending in simple vowels assume their unprotracted form before iti.'† No other reason, it would seem, is to be sought for the rule than that here given: it is intended to insure the absence of protraction in any other instances in the text than those here given; in all of which, the protraction is due to the requirements of the sense, and is not merely euphonic or accentual. A somewhat similar enumeration is made by the Vaj. Pr. in ii. 50-53, and, at the same time, directions are given as to the somewhat anomalous accentuation of the several cases. In Rik Pr. i. 6 (r. 31, xxxii), also, are mentioned the only three instances of protraction to be found in the Rig-Veda, all occurring in the latter part of its tenth book.

Our text and commentary say nothing respecting the accentuation of these words, except as regards the final i in the two instances contained in the first passage, for which see rule 70, above. From this we may perhaps conclude that the other protracted words offer no anomalies of accent. There is, however, some discordance among the manuscripts as to their treatment, which it may be well enough to notice here. Of the first passage (iv. 15. 15) we have already spoken, in the note to rule 96. In ix. 6.18, all the manuscripts excepting I. read bhuyash, without accent, and our printed text has followed their anthority: but I cannot consider this reading as anything but an error, possibly arising from a blundering confusion of the word with the verbal form bhûyâs, from the root bhû: we ought to read, with I., bhú'yā3h. In x. 2. 28, Bp. and E. accent the protracted syllable, babhû $v\hat{a}/3\tilde{n}$: and this accent is somewhat supported by the analogy of the first asi'st in Rig-V. x. 129.5: but the case is still more nearly analogous with Vâj.-S. xxiii. 49, a' viveça 3 n, and Rig-V. x. 146. 1, vindatî 3 n, and hence the reading of the published text is much the more likely to be correct. In xi. 3. 26, all the manuscripts except P. and M. accent pratyáñcá'3m, which is accordingly the best supported reading. In xii. 5. 50 is only to be noted that the pada manuscript in the second instance omits the sign of pluti, but doubtless by a clerical error merely. The rada-text everywhere writes the vowel in its protracted form, and adds the sign of protraction, not immediately after the vowel, but after the final consonant of the syllable, and sometimes with a stroke, or even a double stroke, interposed.

Except in the first passage, which contains an imitation of animal sounds, we have in all these protractions only cases of doubtful questioning as between two alternatives, of hesitating indecision, of mimansa, as it is called once in the text (xii. 4.42).

The signature of the chapter is caturadhyayikayam ca prathamo 'dhyayah samaptah: 13. The figures expressing the number of rules contained in it are obviously corrupt, but how they are to be amended, unless by simply altering them to 105, I do not know. That they mean 113, and that any part of the last section is lost, is not at all probable: I discover nowhere in the section any signs of a lacuna.

^{*} These terms I translate rather according to the evident requirement of the sense than as they would seem naturally to mean.

† This is virtually a restatement of rule 97, above.

CHAPTER II.

Contents:—Section I. 1, introductory; 2, final mutes before sonants; 3, do. as finals; 4, do. before surds; 5, do. before nasals; 6, do. before sibilants; 7, do. before h; 8, t before s; 9, nasals before sibilants; 10, n before c; 11, do. before sonant palatals; 12, do. before linguals; 13, t before c and l; 14, do. before palatals and linguals; 16, dentals after palatals and linguals; 16, do. after sh; 17, c after dentals; 18, loss of an initial s; 19, do. of r before r; 20, do. of a mute after a nasal and before another mute; 21, do. of final y and v after a vowel; 22-23, exceptions; 24, Çâkaṭāyana's view of this combination; 25, insertion of sibilant after pum; 26, do. after n before a surd palatal, lingual, and dental; 27, final ân before a vowel; 28, do. before v, in a special case; 29, insertion of r after final in, ûn, în; 30, exceptions; 31, m before mutes; 32-33, do. before semivowels and spirants; 34, n in like position; 35, m and n before l; 36-37, m retained before semivowels; 38, sphotana; 39, karshana.

SECTION II. 40, visarjaniya before a surd; 41-42, do. before a vowel; 43, do. before a sonant; 44-50, do. converted into r after a and a; 51-52, exceptions; 53-54, as converted to a; 55-59, loss of final visarjaniya.

Section III. 60-61, special cases of irregular sandhi of final visarjaniya; 62, conversion of visarjaniya into a sibilant before initial k and p of the second member of a compound word; 63-80, do. of an independent word.

SECTION IV. 81-101, conversion of final or initial s into sh; 102-107, exceptions.

संक्तियाम् ॥१॥

1. The following rules are to be understood as of force in the combined text.

The first chapter of the treatise has disposed of all matters of general phonetic theory, and laid down such rules as apply to words in their disjoined and independent form, and we now enter upon the consideration of those changes which may and must occur when the padas of the disjoined text are put together into the form of sanhitā. This rule is a general heading (adhikāra) belonging to the second and third chapters. The other treatises have equivalent or corresponding headings; the Rik Pr. at the head of its second chapter, the Vaj. Pr. of its third, the Taitt. Pr. of its fifth. We shall see, however, that our treatise does not everywhere strictly limit itself to what concerns the conversion of padatext into sanhitā.

पदालानामनुत्तमानां तृतीया घोषवत्स्वरेषु ॥२॥

2. Finals not nasals become, before sonant consonants and vowels, unaspirated sonants.

Considering that, by i. 6, only the first and last of each series of mutes can occur as finals, this rule might have said prathamanam, 'first mutes,' instead of anuttamanam, 'mutes not nasal;' both this and the

following rules, however, seem constructed in view of the disputed character of the final non-nasal mute, and of the doctrine of Çâunaka himself that it is a media, and not a tenuis (see i. 8). The corresponding rule of the Vâj. Pr. (iv. 117) is expressed in a precisely equivalent manner: those of the Rik Pr. (ii. 4, r. 10, cxiv, and iv. 1, r. 2, ccxxi) and Tâitt. Pr. (viii. 1, 3) use the term prathama, even although, as already noticed (under i. 6), the former work in theory recognizes the mediae as possible finals.

The commentator's examples are as follows: yad yatra viçvam (ii. 1. 1); yad yâmam cakruh (vi. 116. 1); tasmâd vâr nâma (iii. 13. 3); vevishad vishah (v. 17. 5); yad râjânah (iii. 29. 1); suhasto godhug uta (vii. 73. 7); sâ virâd rshayah (viii. 9. 8); and two which are not to be found in the Atharvan, and of which the latter, at least, is evidently fabricated: viz., tad abhûtam and trishtub atra.

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पदाले चाघोषाः ॥३॥

3. And at the end of a word they are surds.

This, in view of i. 6, is a superfluous precept, and its introduction is only to be accounted for by the considerations adverted to under the last rule.

The commentator cites once more his standard assortment of final mutes, viz. godhuk etc. (see under i. 3).

ऋघोषेषु च ॥४॥

4. As also before surd consonants.

Also an unnecessary specification; since final surds do not require to become surds before succeeding initial surds, but simply remain unchanged. Only the Vâj. Pr. (iv. 118), among the other treatises, gives an equivalent precept.

The commentator instances in illustration vâk ce 'ndriyam ca (xii. 5. 7), virât prajâpatih (ix. 10. 24), and trishtup pañcadaçena (viii. 9. 20).

उत्तमा उत्तमेषु ॥५॥

5. Before nasals they become nasals.

The Pråtiçåkhyas are unanimous in this requirement: compare Rik Pr. iv. 1 (r. 3, ccxxii), Vâj. Pr. iv. 120, Tâitt. Pr. viii. 2. Pâṇini, as has already been noticed (under i. 2) allows either the unaspirated sonant or the nasal before a nasal, while manuscript usage is almost, if not quite, invariably in favor of the nasal.

The commentator cites in illnstration the following passages from the Atharvan text: rdhanmantro (p. rdhak-mantrah) yonim (v. 1. 1); ya udanan nyayanam (vi. 77. 2); arnavan mahatas pari (i. 10. 4); madughan madhumattarah (i. 34. 4); madhyan nicaih (iv. 1. 3); and ya stayan manyate (iv. 16. 1); and finally, as the text affords him no instance of a final p before a nasal, he fabricates a case, out of words more than once employed by him elsewhere in a similar way, viz. trishtum nayati.

द्वितीयाः शपसेषु ॥ ६॥

6. Before c_i , sh, and s, they become aspirated surds.

On this point there is by no means an agreement of opinion among the different Praticakhyas. The doctrine of the Taitt. Pr. (xiv. 12) accords most nearly with that of our treatise, only omitting its restriction to the case of a final before an initial; and the same view is by our commentator mentioned as held by Çânkhamitri, Çâkatâvana, and Vâtsya: his words are: apadântânâm api çashaseshu dvitîyâ bhavanti: iti çânkhamitri-çâkatâyana-vâtsyâh: 1 tasyâ agnir vathsah; 2 'Cânkhamitri, Çâkatâyana, and Vâtsya say that mutes even when not final become "seconds" before c, sh, and s; as in the instance tasyâ agnir vathsah (iv. 39. 2).' The Taitt. Pr. (xiv. 13) adds that Vadabhîkara* teaches the conversion of the mute into an aspirate only before a sibilant not of the same class: f and the doctrine of the Taitt. Pr. in this form, as modified by Vâdabhîkâra, is by the Vâj. Pr. (iv. 119) ascribed to Câunaka, the putative author of our treatise and of the Rik Pr. The Rik Pr., ignoring all these views, and itself holding, like the Vaj. Pr., that the mute remains unchanged before the sibilant, remarks only (vi. 15, r. 54, ccccxxx) that some regard a tenuis before a sibilant as to be aspirated, unless it be a final. Finally, a varttika to Pan. viii. 4. 48, as noticed by Weber (p. 249), ascribes to Paushkarasadi the doctrine which our commentator attributes to the three other grammarians mentioned, and which is also taught by the Tâitt. Pr.—viz., that a mute in any situation becomes aspirated before a sibilant. This comparison of conflicting views is exceedingly curious, and it cannot but inspire us with some distrust of the accuracy, as well as completeness, with which the Hindu grammarians report one another's views.

The commentator, instead of citing from the text any genuine cases, proceeds to repeat a part of the cases which he has already once manufactured (under i. 49), in illustration of a samuukta combination of consonants, by putting his four words, godhuk etc. (see under i. 3), one after another, before cete, shande, and saye; and the manuscript uniformly fails to write the aspirate, except in the case of drshat. The cases which actually occur in the Atharvan text are ks (e.g. iii. 1.4), tc (ix. 5. 21), ts (e.g. viii. 9. 9; but, by rule ii. 8, it is to be read tts), ts (passim), and ps (in avagraha; e.g. ap-su, i. 6. 2); ksh and pg are found only in the interior of words. The manuscripts of the Atharvan read always the simple surd before the sibilant, and in the printed text we have of course followed their authority rather than that of the Prâtiçâkhya. Weber (p. 250) notices that a single Berlin MS. of the Vâjasaneyi-Sanhitâ writes the surd aspirate before a s not followed by a

consonant.

rently misled by an error of his manuscript.

¹ çânkhamitiçâkatâyanasyavâtsyâh.

* My manuscripts vary, as to the reading of this name, between vâdabhikâra, bádabhikára, and bádavíkára: Weber (p. 78) calls it once vátabhikára.
Weber says (pp. 245, 250) "only before a sibilant of the same class;" appa-

तेभ्यः पूर्वचतुर्थी क्कार्स्य ॥७॥

7. After final non-nasal mutes, h becomes the aspirated sonant of the preceding letter.

The Rik Pr. (iv. 2, r. 5, ccxxiv) and Vâj. Pr. (iv. 121) agree precisely with our treatise upon this point; and the same doctrine is attributed by the Tâitt. Pr. (v. 38) to Plâkshi, Kâuṇḍinya, Gâutama, and Pâushkarasâdi. The Tâitt. Pr. (v. 39-41) goes on to state that in the view of some the h remains unchanged; while the Mimânsakas, and Çâityâyana etc. (the "etc." mcans, according to the commentator, Kâuhalîputra, Bharadvâja, sthavira-Kâuṇḍinya, and Pâushkarasâdi [sthavira-Pâushkarasâdi]) hold that an aspirated sonant* is inserted between the final surd and the h. Pâṇini's rule (viii. 4. 62), as is well known, allows the h either to remain unchanged, or to become the sonant aspirate; and there is but a very trifling phonetical difference between the two modes of treatment.

The illustrative citations of the commentator are ud dharshantâm maghavan (iii. 19.6), ud dharshaya satvanâm (v. 20.8), uddharshinam munikeçam (viii. 6.17), kad dha nûnam (xviii. 1.4), pṛthivyâm astu yad dharaḥ (xviii. 2.36), tejasvad dharaḥ (xviii. 3.71).

ठकारात्मकारे तकारेण ॥ ८ ॥

8. After t is inserted t before s.

The same phonetic precept is found in the Taitt. Pr. (v. 33), combined with a part of that contained in our next following rule: t, it is said, is to be inserted after t and n, when they are followed by s and sh. The Rik Pr. (iv. 6, r. 17, ccxxxvi) also gives it as the view of certain teachers that t and n, when followed by s, receive the appendix of a t.

The commentary quotes from the text virât svarājam (viii. 9.9), prtanāshāt suvīrāh (xi. 1.2), and triçatāh shat sahasrāh (xi. 5.2), which are the only examples of this combination presented by the Atharvan. In the first of the three, P. reads tts, in its second copy of the book, and by the emendation of a second hand: the other manuscripts give here, as do all of them in the other two cases, simply ts; and the printed text follows their authority.

उणनेभ्यः कटतैः शषसेषु ॥१॥

9. After n, n, and n are inserted k, t, and t before c, sh, and s.

The form of this rule is a little ambiguous, since we might be left by it to query whether, for instance, after n, was to be inserted k before g, t before sh, and t before s, or only k before all the three sibilants—in other words, whether the transition-sound should adapt itself to the character of the following or of the preceding letter. The commentator

^{*} Weber (p. 251), by a lapsus calami, says "the unaspirated sonant."

either does not notice, or does not deign to relieve, this difficulty; he offers no explanation of the rule, and, in the instances which he cites, the manuscript persistently omits to write the transition sound. phonetic reasons, however, it cannot be doubted that the latter is determined by the preceding letter, and that after n is to be uttered a k, after n a t, and after n a t, before all the sibilants. By no means all the cases, however, which the rule theoretically contemplates, are found actually to occur in practice. The guttural nasal, \dot{n} , precedes s six times in the Atharvan (iv. 11. 8. vi. 51. 1. xiii. 1. 56; 2.3; 3. 16. xviii. 1. 29), but is never found before c or sh: the manuscripts do not in a single instance write the transitional k, nor have we introduced it in the published text. The lingual nasal, n, never occurs as a final, except before v, in the cases treated of in rule iv. 99. The case of n before c is provided for by rules 10 and 17, below; n before sh is found three times in our text (viii. 9. 17. xiii. 1. 4; 3. 6), and nowhere do the manuscripts write a t between them (it is done by the edition, however, in the last two cases); n before s occurs times innumerable, and the usage of the manuscripts with respect to the sandhi is exceedingly irregular; there is hardly an instance in which they all agree together either to reject the t or to insert it, nor is any one of them consistent with itself in its practice. In the edition, therefore, we have followed the authority. of the Pratiçakhya, and the sandhi is always made nts (except in one instance, viii. 5. 16, where the t has been omitted by an oversight).

The insertion of these tenues after the nasals is a purely physical phenomenon, and one which is very natural, and liable to occur in any one's pronunciation. There is to be made, in each case, a double transition in utterance: from the sonant nasal to the surd oral emission, and from the close to the partially open position of the organs. If, then, the former is made an instant earlier than the latter, if the nasal resonance is stopped just before, instead of exactly at the same time with, the transfer of the organs to the position of the sibilant, a tenuis of the same position with the nasal becomes audible. It is, as already remarked under i. 99, the counterpart of the nasal yama, asserted by the Hindu phonetists to be heard between a mute and following nasal. It is also closely analogous with the conversion of nc into nch, as will be pointed out below (under rule 17).

The commentator, by way of examples of the combinations taught in the rule, pnts pratyan and gan before cete, shande, and saye respectively (the MS., as already noted, always failing to write the transition-sound), and then quotes from the text two actual cases: viz. shad ahuh stan shad u masah (viii. 9. 17), and tant satyaujah (iv. 36. 1).

The Rik Pr. does not itself teach these euphonic insertions, but merely records it as the opinion of some authorities (iv. 6, r. 16, 17, ccxxxv, ccxxxvi) that k is inserted after n before a sibilant, and t after n before s. The Vâj. Pr. so far agrees with our treatise as to prescribe (iv. 14) the insertion of k after n and t after n, before s, adding (iv. 15) that Dâlbhya is of the contrary opinion. The Tâitt. Pr. (v. 32, 33) inserts k after n, and t after n, before both s and sh, and so precisely accords with our own rule, only omitting such cases as are nunecessarily and vainly provided for in the latter.

नकारस्य शकारे ञकारः ॥१०॥

10. Before c, n becomes \tilde{n} .

This rule is incomplete, except as taken in connection with rule 17, below, along with which, accordingly, it will be here treated. The commentator's illustrations are two of those which are given under rule 17, viz. asmâñ chatrûyatîm abhi (iii. 1. 3), and divi shañ chukraḥ (xviii. 4. 59).

चवर्गीये घोषवति ॥११॥

11. As also before a sonant palatal.

That is to say, before j; since jh, as already noticed, never occurs, and π is never found as initial.

This is another rule as to the observance of which the usage of the Atharvan manuscripts is quite various; and it may almost be said here, as of the insertion of t between n and s, that there is not a passage in which all the codices agree either to make or to neglect the assimilation. We find written in such cases either anusvan, or \bar{n} , or n; yet the first is notably the most frequent, and in the printed text has been made, in obedience to the authority of the Pratiçakhya, the universal usage. It might perhaps have been better, in order to avoid ambiguity, to write the palatal nasal expressly, instead of intimating it by the cases are few in which a final \bar{n} so written could be mistaken for one which arises from the assimilation of a final m.

The other treatiscs (R. Pr. iv. 4, r. 9, ccxxviii; V. Pr. iv. 92; T. Pr. v. 24) prescribe the conversion of n into \tilde{n} before any following palatal; and the Rik Pr. and Tâitt. Pr. include the palatal sibilant in the same prescription, their rules thus corresponding to our 10th and 11th together. In the Atharvan, n does not occur anywhere before an original ch, and n before c is treated in a later rule (ii. 26). The manuscripts of the Rig-Veda (see Müller, p. lxxxvii) show the same irregularity in their treatment of final n before a palatal which has been noted just now as characterizing those of the Atharva-Veda: but the editor does not appear to have attempted to carry out any principle in the readings which he has adopted.

The commentator eites avapaçyañ janânâm (i. 33.2), tṛṇahâñ janam (v. 8.7), prâishyañ janam iva (v. 22. 14), and vivâhâñ jñâtîn (xii. 5. 44).

ठवर्गीये णकारः ॥१२॥

12. Before a lingual mute, n becomes n.

As no lingual mute is found at the beginning of any word in the Atharvan, any more than in the other Vedas, this rule is as unnecessary as is the inclusion of n along with the other nasals in rule 9 of this chapter, and as is more than one rule or part of a rule in that which is

to follow: such specifications are made merely for the sake of a theoretical completeness. None of the other kindred treatises has a corresponding precept.

The commentator fabricates, as illustrations of the rule, bhavan diyate,

mahân dîvate. 1

तकारस्य शकारत्नकारयोः परसस्थानः ॥ १३ ॥

13. Before c and l, t becomes of like position with those letters respectively.

There is no discordance among the different treatises with regard to the combination of t with either g or l, although there are differences in the precise mode of statement of the rules. The corresponding preeepts are Rik Pr. iv. 4 (r. 10, 11, ccxxix, ccxxx); Vaj. Pr. iv. 12, 93; Tâitt. Pr. v. 22, 25. The sandhi of t with c is not complete without the addition of rule 17, below, which see.

The commentator cites one instance for each part of the rule, viz.: ucchishte (p. ut-cishte) nama (xi. 7.1), and ghrtad ulluptam (v. 28.14).

There follows a slight lacuna in the manuscript, the copyist heedlessly passing, as we may plausibly conclude, from the takarasya of the final repetition of this rule to that of the paraphrase of the next, thus overleaping the latter altogether, so that it has to be restored from its final repetition before rule 15. We may restore as follows, indicating by brackets the portion omitted: ghrtad ulluptam: takarasya [cakaralakârayoh parasasthânaç catavargayoç ca: catavargayoç ca takârasya] parasasthano bhavati. We have had occasion once before (under i. 64) to note such an omission, and more than one additional instance will appear hereafter. Here, nothing of any consequence is lost.

चटवर्गयोश्च ॥ १४ ॥

14. As also, before palatal and lingual mutes.

One part of this rule, again-viz. that relating to the lingual mutesis altogether superfluous; and it has no correspondent in any of the other treatises. The assimilation of t to a following palatal is taught by them all (see R. Pr. iv. 4, r. 10, 11, ccxxix, ccxxx; V. Pr. iv. 92; T. Pr. v. 22, 23).

For the palatal combination, the commentator instances uc ca tishtha (ii. 6. 2), and yoj jamayah (xiv. 2. 61); and we may add brhacchandah (iii. 12. 3). For the lingual combination, he fabricates the examples agnicit tikate, somasud diyate: compare those given under the corresponding rule of Panini (viii. 4. 41).

ताभ्यां समानपदे तवर्गीवस्य पूर्वसस्थानः ॥ १५ ॥

15. A dental mute following these in the same word is assimilated to them.

¹ bhavâr nîyate, mahâr nîyate.

This rule, in its extent as given, is an infringement of the limits laid down in i. 1 as those of a Praticakhya, and also of those laid down in ii. 1 as those of the chapter: and a more notable one, as it concerns in part the very case which is cited in the commentary to i. 1 as an illustration of what it does not belong to a Praticakhya to treat; the instances here quoted in the commentary for the assimilation of a dental to a preceding lingual—they are mûdhâ amitrâh (vi. 67. 2), and teshâm vo agnimûdhânâm (vi. 67. 2)—are precisely analogous with the one there given, and our rule teaches only one out of the series of changes which such a word must undergo, as drawn out in full by the commen-The only practical application of the precept tator in his exposition. is one which is not recognized, or at least not illustrated, by the commentator; namely, to those cases in which an initial s followed by a t or th is, by later rules (ii. 90 etc.), converted into sh: the following dental then becomes by this rule a lingual.

In illustrating the other part of the rule, that which prescribes the assimilation of the dental to a preceding palatal, the commentator first states, vârttika-like, the restricted form in which alone it applies—cavar-giyân nakârasya ca, 'following a palatal mute, a n is assimilated'—and cites yajñena yajñam (vii. 5. 1), somâya râjñe (ii. 13. 2), and somasya râjñaḥ (vi. 68. 1). He might have added yâcñyâya krnute* (xii. 4. 30), the ouly instance in the Atharvan of a like assimilation after c.

The other treatises, combining the practical part of this rule with the one next following, teach that t and th are everywhere converted into t and th after sh (see R. Pr. v. 3, r. 11, cccxxviii; V. Pr. iii. 78; T. Pr. vii. 13, 14).

षकारात्रानापदे जीप ॥१६॥

16. And even in a different word, after sh.

That is to say, a dental following sh is assimilated to it, and becomes lingual, not only when both letters occur within the same word, but also when the sh is final, and the dental the initial of an independent word. The commentary cites cases of the assimilation in the same and in separate words—viz. shashtih (e. g. v. 15. 6) and shannavatih—but the former belongs under the preceding rule, and the other is such a case as never occurs in the Atharvan. The precept was evidently only intended for such combinations as bahishte (i. 3. 1), in which, by the rules contained in the fourth section of this chapter, an original flual s becomes lingualized, and the following t is assimilated to it.

The corresponding rules of the other Prâtiçâkhyas have been already referred to.

तवर्गीवाच्छ्कारः शकारस्य ॥ १०॥

17. After a dental mute, ç becomes ch.

This rule, taken in connection with rules 10 and 13, above, deter-

^{*} The reading of the printed text, yâncyâya, is an error of the press.

mines the form to be assumed by the combinations t+c and n+c. Exception may fairly be taken, however, to the method in which the change is taught. By the other rules referred to, t and n are to become c and \bar{n} before c: and if those rules are first applied, there will be no dental mutes for c to follow; while, if the present rule be first applied, the others are rendered wholly or in part superfinons, by the non-occurrence of c after t and n. In the case of t there comes in the still farther difficulty that rule 6 of this chapter has converted it into th, so that a part of rnle 13 is thereby also rendered incapable of application. These are incongruencies such as the anthors of the Praticakhyas are very seldom guilty of. What is the intention of our treatise is, indeed, sufficiently clear: the combination of t and c is to produce cch, by the conversion of the former into c and the latter into ch; and the combination of n and c, in like manner, is to produce πch . The Rik Pr. (iv. 4, 5, r. 9, 11, 12, ccxxviii, ccxxx, ccxxxi) teaches the same changes, only adding (r. 13, ccxxxii), that Çâkalya would read instead cc and nc. The Vaj. Pr. (iv. 93, 94) also agrees, only exempting the c from conversion into ch when it is followed by a mute. The Taitt. Pr. prescribes (v. 22, 24) the change of t and n into c and \tilde{n} before c, and (v. 34, 35) the conversion of c into ch when preceded by any mute excepting m, Vâlmîki (v. 36) also excepting p, and Pâushkarasâdi (v. 37) denving the conversion when c is followed by a consonant, and denying in this case also the conversion of the preceding n into \tilde{n} .*

The commentator cites examples only of the combination of n and c; they are devân chlokah (xviii. 1. 33), asmân chatrûyatîm abhi (iii. 1. 3), and divi shañ chukrah (xviii. 4.59): as an example illustrative of the other part of the rule, we may take arac charavyah (i. 19.1). In the orthography of this class of combinations, we have followed in the printed text the authority of the manuscripts, which, with hardly an exception, write simply ch, instead of cch. This orthography is also, to my apprehension, a truer representation of the actual phonetic result of combining t with c. That these sounds fuse together into a ch is very strong evidence that the utterance of the Sanskrit surd palatals did not differ materially from that of our ch (in church etc.); and I conceive that the constant duplication of the ch and jh (wherever the latter occurs) between two vowels is to be looked upon simply as an indication of the heaviness of those consonants, and of their effect to make the preceding vowel long by position. The c and j, though strictly compound sounds, are too easy combinations to occasion position: in this respect they resemble the aspirate mutes, which are likewise really double in their nature: but they are too heavy to bear the farther addition of even so light an element as the aspiration without acquiring the quantity and phonetic value of double letters.

The conversion of n_s into $\tilde{n}ch$, on the supposition of the compound nature of the palatal, as made np of a mute and a sibilant element, would be almost precisely analogous with that of n_s into n_t , as taught in rule 9, above, and would be readily and simply explainable as a phonetic process.

^{*} Pâushkarasâdi would read neither pâpiyáñ chreyase nor even pâpiyáñ creyase, but pâpiyán creyase: this is misunderstood by Weber (p. 238).

लोप उदः स्थास्तम्भोः सकारस्य ॥ १० ॥

18. After the preposition ud, the s of the roots sthâ and stambh is dropped.

The commentary cites the only cases from the root sthå, occurring in the Atharvan text, to which the rule properly applies; viz. må ghoshå ut thuh (vii. 52. 2), tatas tvo 't thåpayåmasi (x. 1. 29), and ut thåpaya sidatah (xii. 3. 30); in each instance, the pada-text reads the s, leaving the irregular and mutilated sandhi for the sanhitå to make. Wherever, however, the preposition receives the accent, and enters into a more intimate combination with the root, as in the participle útthita, the padatext (by iv. 62) does not separate the compound, or restore the original s, but reads the same form which appears in sanhitå. Of this kind is also the only example of the root stambh combined with the preposition ud which our text presents, viz. satyeno 'ttabhitâ (xiv. 1. 1), where the pada reads úttabhitâ, and not út-stabhitâ: the passage is cited by the commentator.

The Vâj. Pr. (iv. 95) notices the loss of s from the root stambh, but, as Weber remarks with surprise, omits all mention of sthâ. The Tâitt. Pr. (v. 14) includes these cases in a more general rule, that s is dropped when preceded by ud and followed by a consonant.

रेफस्य रेफे ॥ ११ ॥

19. R is dropped before r.

The corresponding rules in the other treatises are Rik Pr. iv. 9 (r. 28,

cexlvii), Vâj. Pr. iv. 34, Tâitt. Pr. viii. 16.

The r which is thus dropped must itself, of course, be the product of euphonic processes taught elsewhere (ii. 42, 43). The protraction of a preceding short vowel when a r is thus dropped is prescribed in a later rule (iii. 20).

स्पर्शाड्तमाद्नुत्तमस्यानुत्तमे ॥ ५०॥

20. After a nasal, a non-nasal mute is dropped before a non-nasal.

This rule, also, is hardly in place as a part of the Prâtiçâkhya, unless it be meant that in the words to which it applies the non-nasal mute is not to be omitted in the pada-text. The most frequent cases occurring under the rule are those of forms of conjugation coming from roots exhibiting a nasal before their final mute, and formed by affixes commencing with a consonant: as, from indh, indhe instead of inddhe, for indh-te; from chind, chintam instead of chintam, for chind-tam; from añj, antam instead of anktam, for añj-tam; from yunj, yundhi instead of yungdhi, for yunj-dhi, etc. In all such cases, however, the pada manuscripts, as well as the others, omit the intermediate mute, nor is it at all likely that they ought to do otherwise: the rule is one properly of supererogation, yet finding a sufficient excuse in the peculiarity of the

mode of utterance which it inculcates, and in the desirability that this should be noticed in the grammatical text-book of the school. Neither of the other known Praticakhyas teaches the same omission, or even

notices it as prescribed by any authority.

The citations of the commentator are pantir atra (fabricated: no such case in AV.), pântam chandah (xii. 3. 10), and sapatnân me bhandhi (x. 3. 13). As connter-examples, to show that the omission takes place only after a nasal and before a non-nasal mute, he instances tasyâ vâyur vatsah (i. e. vattsah: iv. 39. 4), utso vâ tatra (i. e. uttso and tattra: vi. 106. 1), apsarasah sadhamâdam madanti (i. e. appsarasah: xiv. 2. 34), and nudâma enam apa rudhmoh (i. e. ruddhmah: xii. 3. 43).

The Atharvan manuscripts are quite consistent in observing this rule, although there are cases in which one or another of them preserves the mute of which the omission is here directed. In the published text, it is nniformly followed—with, I believe, but one accidental exception, viz. anuprayunktâm (xii. 1. 40): and here, for once, all the manuscripts

happen to agree in retaining the k.

स्वराखवयोः पदात्तयोः ॥ ५१ ॥

21. Final y and v, following a vowel, are dropped.

This rule applies, on the one hand, to the y and v of the syllables ay, av, ay, av (the latter, however, being excepted by the following rule), into which, by iii. 40, e, o, ai, and au are converted before a vowel; and, on the other hand, to the y into which, by ii. 41, visarjaniya theoretically passes before an initial vowel. An equivalent rule is found in the Vai. Pr., at iv. 124. The teachings of the Taitt. Pr. upon the subject are found at x. 19-23: that treatise is here, as on so many other points, especially liberal in the citation of the opinions of discordant authorities. According to it, y and v are dropped when preceded by a and a: Ukhya, however, maintaining the contrary; Samkrtya denying the loss of v; Mâcâkîya allowing the elision of both when followed by u or o; Vâtsapra holding that they are not lost altogether, but only imperfectly pronounced. The treatment of final diphthongs and visarjaniya by the Rik Pr. does not include the exhibition of a final semivowel which requires to be got rid of, and hence it has no precept corresponding with the one now in question.

The commentator instances ka asañ junyah ke varah (xi. 8. 1), ushnena vâya udakene "'hi (vi. 68. 1), asya ichann agruvâi patim (vi. 60. 1), sa u eva mahâyamah (xiii. 4. 5), and tâ imâ âpah (xv. 15. 7). In these passages, ke, vâyo, and asyâi are converted into kay, vâyav, and asyây, by iii. 40, prior to the elision of the semivowels: while sah, tâh, and imâh are in like manner, by ii. 41, converted into say, tây, and imây.

नाकाराद्वकार् स्व ॥ ५५ ॥

22. But v is not dropped after \hat{a} .

That is to say, final $\hat{a}v$ before a vowel—the result of the change of an original $\hat{a}u$, by iii. 40—remains $\hat{a}v$, being subject to no farther

change. This rule is uniformly observed in the sanhitâ of the Atharvan, excepting in a couple of cases in book xix, which hook the Prâtiçâkhya does not recognize as forming part of the Atharvan text: these are pâdâ ucyete (xix. 6.5), and citrâ imâ vṛṣhabhâu (xix. 13.1). The commentator's examples are dvâv imâu vâtâu vâtah (iv. 13.2), indravâyû ubhâv iha (iii. 20.6), and ubhâv indrâynî â bharatâm (v. 7.6).

The Vâj. Pr. teaches the loss of the v of av as well as of av (iv. 124), hnt adds (iv. 125) that some would retain the v excepting when followed by u, o, and au. The doctrines of the Tâitt. Pr. have been stated in full under the preceding rule. The Rik Pr. (ii. 9, 10, 11, r. 25, 28, 31, exxix, exxxii, exxxv) holds the view referred to hy the Vâj. Pr. in its latter rule: o and au, according to it, become av and av hefore any other than a lahial vowel; before a lahial, a and av.

गविष्टौ गवेषण इति च॥५३॥

23. Nor in gavishți and gaveshana.

These are the only words found in the Atharvan in which the diphthong o is the final of the first member of a compound before a following vowel, and in such a case, as we might expect, the fuller pronunciation is retained, and the v preserved. The commentator cites ishumantam gavishtau (iv. 24. 5: p. go-ishtau), and gaveshanoh sahamanah (v. 20. 11: p. go-eshanah). Other like cases, as gavaçir and gavish, occur in the twentieth hook of the text, but with that book the Pratiçakhya has nothing to do.

लेशवृत्तिर्धिस्पर्शे शाकटायनस्य ॥ ५४ ॥

24. According to Çâkatâyana, there takes place in these cases an attenuated utterance of y and v, as regards the contact.

The commentator gives us no help whatever as regards the interpretation of this difficult rule: he simply paraphrases it, as follows: lecavrttir bhavati adhisparçam çâkatâyanasya, and then proceeds to repeat all the illustrative citations given above under rule 21. treatises, however, throw a good deal of light upon its meaning. word lega, 'diminution, attenuation, mutilation,' occurs in the same connection in the Taitt. Pr., in a rule already quoted (under ii. 21), which states that Vatsapra holds, not the omission, but the lega, of final y and v after a and \hat{a} ; and the commentary there explains legal hy luptavad uccaranam, 'an utterance of them as if they were omitted.' In the Rik Pr., too, lega is once found, in the chapter treating of faulty pronunciation (xiv. 5), and is set over against pidanam-legena va vacanam pîdanam vâ, which Regnier translates "a pronunciation attenuated or pressed (i. c. too forcible)." Pânini (viii. 3. 18) attributes to Çâkatâyana the same doctrine as regards the pronunciation of final y and v-vyor laghuprayatnatarah çâkatâyanasya, 'the utterance of y and v, according to Cakatayana, is to be made with slighter effort.' Cakatayana, then, is to he understood as holding, like Vatsapra, that the final semivowels are not to he omitted altogether, hut slightingly and imperfectly

uttered, the partial contact (i. 30) which is characteristic of them not being completely made. The citation by the commentator of the whole body of examples belonging to ii. 21 under this rule shows that he regards the latter as referring to all the cases included in the former; and its position after rules 22 and 23 would indicate that it applies to the combinations treated in those rules also. The scholiasts to Panini restrict Çâkaţâyana's doctrine to y and v when preceded by bho, bhago, agho, and a: but the Vâj. Pr. (iv. 126) refers to him as exempting only the word asâu from the treatment prescribed for y and v in every other case—which treatment, however, it does not specify to be attenuation instead of omission.

्रपुनो नकारस्य स्यर्शे ज्योषे ज्नूष्मपरे विसर्जनीयो ज्पुंश्चादिषु ॥ २५ ॥

25. The m of pum becomes visarjanîya before a surd mute not followed by a spirant, except in punça etc.

This is a rule very hard to get along with. In the first place, it is altogether unnecessary and uncalled for, since, of all the words to which it is intended to apply, but a single one, puncali, is found in the Atharvan text, and that one is written by the pada-text precisely as in sanhita, and so requires no explanation from the Prâtiçâkhya. But we have noted, and shall have still to note, many cases in which the treatise deals with irregularities of derivation or combination, even though they are not reduced to regularity by the pada-text, so that we need not be much surprised to find the formation of punccali taught. Another difficulty is that, instead of simply disposing of the case which the text presents, the treatise gives to the rnle a general form of statement, applicable to all possible cases. Yet even this is supported by its usage in several other instances, in which it affects a theoretic completeness suited to a general rather than to a special grammar; and the precise virtual accordance of our rule, with the exception of its last word, apunccadishu, with one contained in Pânini's grammar (viii. 3. 6), is a sufficient explanation of the form of statement adopted. The addition of the word apunceadishu remains the last and the worst difficulty, and I must confess myself unable to give a satisfactory solution of it. The commentator furnishes no help as regards it; his treatment of the whole rule is as follows: he first repeats it, inserting merely the omitted copula bhavati after visarjamiyo, and gives as illustrations punskama, punsputra, and punccali (e. g. xv. 2. 1: the other words cited, here and hereafter, as already remarked, do not occur in AV.; these are all found, with punskokila, in the scholia to Pânini): he then asks "why does it say before a mute?" and cites in reply pumyanam; farther, "why before a surd mute?" reply, because of pumdana (pumdasa? Pan, pumdasa and pumgava); again, "why before one not followed by a spirant?" reply, because of pumkshura (Pan., pumkshira and pumkshura); and finally, apunccadishv iti kim: punccorah; 'why "excepting in puncca etc.!" because of such cases as punccora.' But punccora, 'he-thief,' is as regular an instance of the application of the rule as puńskâmâ or puńccali; nor does it seem possible to find in apuńccâdishu itself any form which constitutes an exception to the previous specifications. I can only conjecture that the reading is corrupt, and was corrupt before the commentator set himself at work upon it, and that his explanation was as unintelligible to himself as it is to us. The specification may have been intended for such words as puńkhyâna, which constitutes an actual exception to the rule, and it is cited as such in Böhtlingk's note to Pâṇini viii. 3. 6, as from the Siddhânta-Kâumndî.

It deserves to be remarked that the introduction of the word visarjantya into the next following rule tends strongly to show that the one now under discussion is an interpolation: otherwise the term should be understood in the rules which succeed, by implication from this, and

should not require to be again specified.

The conversion of the *m* in *pum* into *visarjantya* of course includes, by i. 68, the nasalization of the preceding vowel, and also the adaptation of the *visarjantya* to the following consonant, by ii. 40, 62, etc.

नकारस्य चटतवर्गेष्ठघोषेष्ठनूष्मपरेषु विसर्जनीयः॥५६॥

26. N becomes visarjaniya before surd palatal, lingual, and dental mutes not followed by spirants.

That is to say, virtually, a sibilant is inserted before the mute. of the same class with the latter, and the n itself is replaced by the nasalization of the preceding vowel. Here, again, the mention of linguals is superfinous, no cases arising in the text to which this part of the rule should apply. The commentator fabricates his whole series of examples illustrating the application of the rule, viz.: bhavanc cinoti, bhavanc châdayati, bhavânsh tîkate, bhavâns tarati, bhavâns tatra. To explain the reason of the specification "surd" contained in the rule, he cites two actual cases, brhan dukshinaya (vi. 53. 1), and nai 'nan namasa parah (vii. 7. 1), which show that no such conversion is made before a sonant or nasal mute. But farther, to explain the addition of the restriction "not followed by spirants," he resorts again to fabricated instances, bhavan tsaru, mahan tsaru: this time with good reason, since no such cases occur in our text, and the restriction, so far as concerns the Atharva-Veda, is superfluous, and is only inserted, like the specification of the lingual along with the palatal and dental mutes, in order to make the rule theoretically more complete.

The insertion of a sibilant between a final n and an initial c (as in parvatânc ca, i. 12. 3) is made in the Atharvan uniformly, without a single exception, and, owing especially to the frequency of the particle ca after a nominative or an accusative in n, the cases are very numerous: of n before ch the text affords no example. A like insertion of s before t (th never occurs as initial) is not rare (the text presents sixty-seven cases), but the exceptions—which the treatise notes in rule 30, below—are also tolerably numerous: they are all given in a marginal note farther on.

The doctrine of the Vaj. Pr. on the subject of these insertions corresponds precisely with that of our own treatise; its rules (iii. 133, 134),

however, omit the unnecessary mention of the lingual mntes, and restriction to mntes not followed by spirants, although they retain the equally unnecessary mention of ch and th. The exceptions are given in detail (iii. 142-144); among them are to be found no cases of n before an initial c. The Taitt. Pr. gives a general rule (v. 20) for the insertion of the sibilant before c, and then (v. 21) rehearses all the cases (seven in number) in which it does not take place. The insertion before t is noted in another place (vi. 14), and all the cases of its occurrence (only eighteen in number) are there enumerated. The Rik Pr. (iv. 32 etc.) catalogues all the words before which the sibilant is added, as well before c (iv. 32, r. 74, coxciii), as before t (iv. 33, r. 76, coxcv): such words in the Rig-Veda are not very numerous; its usual method of sandhi is \tilde{n} -c and n-t simply. The Rik presents, on the other hand, a few cases (five) in which a sibilant, converted to visarjaniya, is inserted after n before an initial p (R. Pr. iv. 34, r. 78, coxcvii, coxcviii).

It is sufficiently evident that this insertion of a sibilant after a final n before a surd mute is no proper phonetical process: the combination of the nasal and following non-nasal is perfectly natural and easy withont the aid of a transition sound, nor can any physical explanation be given of the thrusting in between them of a sibilant, which only encumbers the conjunction. Some other reason must be sought for the phenomenon: nor is such a reason difficult to discover. The historical rather than phonetical origin of the r which is appended (see rule 29, below) to a few accusatives plural in the Vedic language before a vowel has been long since pointed ont by Bopp (see his shorter Sanskrit grammar, § 82b); and a kindred explanation of the conversion of an into an before a vowel (see rule 27, below) was added by him in his Comparative Grammar (see the second edition, i. 468, 478, 479). He has refrained from tracing the insertion of a sibilant before c and t to the same cause, doubtless, because of the numerous instances in which the insertion is made after a word which is not entitled by origin to a final s. But nothing is more natural than that an insertion originally organic, but of which the true character was forgotten, and which had come to seem merely euphonic, should considerably extend its sphere of occurrence, and should be by degrees, and more and more, applied to cases to which it did not historically belong. Now a very large majority of the words ending in n are accusatives plural and nominatives singular.*

^{*} That I might not seem to speak at random upon this point, I have looked through half of the Atharvan text, or books i-ix, and have noted the character of every word terminating in n which is to be found therein. The result is set forth in the following table:

Accusatives plural in dn	520		Vocatives in	an	63	
in	40		V COMPLY CO III	in	19	82
ûn	62		Locatives in	in	64	
	8	630		an	14	78
Nominatives singular in an			Verbal forms in	an	138	
ân	117	260		án	5	143
Total		890-	Total			303

It is thus seen that the forms to which a final s originally belongs outnumber the others almost precisely in the proportion of three to one, or constitute three-quarters of the whole number of words ending in n.

to both of which cases comparative grammar clearly shows that a final s belongs as case-ending; and I can entertain no doubt that the whole phenomenon of the insertion of the sibilant arose from its preservation in these forms, and from the inorganic extension of the same mode of combination, by analogy, to the much smaller classes of vocative, locative, and verbal forms. The same conclusion is favored by the aspect of the phenomenon of the insertion of s between n and t, as it presents itself in the text of the Atharva-Veda. Although the insertion is there made after other forms than those originally entitled to a final s, it is rare after such forms in a ratio four times greater than that of the rarity of the forms themselves: that is to say, while these are in number onethird of the others, the insertions after them are only one-twelfth as And, on the other hand, although the insertion is sometimes omitted after nominatives singular and accusatives plural, it is omitted five times as often, in proportion, after the final n of other forms than these. For a detailed and classified statement of all the passages in which the sibilant is either inserted or omitted after a final n before an initial t, see the appended marginal note.*

ग्राकारोपधस्योपबद्धादीनां स्वरे ॥ ५०॥

27. The final n of upabaddha etc., when preceded by a and followed by a vowel, becomes visarjaniya.

This process includes two additional steps, taught elsewhere in the

Cases of the sandhi without insertion of s: I. Accusatives plural. 1. in an: vii. 38. 3. 2. in in: xviii. 2. 15, 18. 3. in ûn: vii. 84. 3. 11. Nominatives singular. in an: xiii. 2.33. xiv. 1.5. xix. 28.4.
 in an: iv. 32.8. xviii. 2.32. xx. 128.
 III. Vocatives singular in an: i. 14.3. vii. 9.3.
 IV. Locatives singular in in: i. 15. 2; 35. 3. v. 28. 4. vii. 43. 1. x. 3. 17. xiv. 2. 48, 49. V. Verbal forms in an: i. 11. 2. iii. 9. 2; 22. 3. iv. 7. 7; 14. 1; 35. 2. x. 10. 24. xi. 5. 2. xiv. 2. 14. That is, in tabular form:

in tabular form:			
		with s.	without s.
Accusatives plural in	ân	40	1
•	in	1	2
	ûn	4	1
	î n	1 46	0 4
Nominatives singular in	an	<u>_6</u>	3
	ân	10 16	3 6
Total		62	10
Vocatives singular in	an	1	2
Locatives singular in	in	1	7
Verbal forms in	an	3	9
Total		-5	18

^{*} Cases of the sandki with insertion of s between n and t: I. Accusatives plural. The state of the same of the s 1. 32, 39. xvii. 10. xviii. 2. 20. 2. in dn: ix. 2. 19-24. xii. 1. 18. xiii. 2. 29; 4. 44. xvii. 16. 11I. Vocatives singular in an: v. 22, 5. IV. Locatives singular in in: xi. 8. 10. V. Verbal forms in an: xix. 19. 10. xx. 135. 6, 7.

treatise, before the combination is complete, and the final sanhità form reached. The conversion of the n into visarjaniya itself implies, by i. 68, the nasalization of the preceding vowel, so that upabaddhan becomes upabaddhanh; then the visarjaniya, by ii. 41, becomes y before the following vowel: upabaddhany iha; and lastly, by ii. 21, the final y is rejected, and we obtain upabaddhan iha. This seems a cumbrous and artificial process, yet it is in part well-founded and correctly carried out. All the cases in which this loss of a final n occurs are accusatives plural or nominatives singular, which originally possessed a final s after the n, and the loss of the n before the sibilant, with accompanying nasalization of the preceding vowel, and then the disappearance of the sibilant itself, as in other cases after & and before a vowel, are unquestionably the cause of the sandhi as it finally presents itself. Our treatise, then, by bringing in the visarjaniya as a step in the process, and treating of this combination in intimate connection with those related ones which form the subjects of rules 26 and 29, has a decided theoretic advantage over either of the other Praticakhyas. The Rik Pr. (iv. 26, r. 65, cclxxxiv) prescribes simply the omission of the final, excepting at the end of a pâda, afterwards (iv. 26, 27) specifying the cases in which the omission takes place even at the end of a pada, and finally (iv. 30, 31) those in which it does not take place even within a pâda (there are only eleven such cases). The Vaj. Pr. (iii. 141) and the Taitt. Pr. (ix. 20) come one degree nearer to the method of our treatise, by converting the n into y before its elision, and both give in detail (V. Pr. iii. 145-149, T. Pr. ix. 23-24) the exceptional cases in which the n remains nuchanged.

The commentator cites only the first five instances which the text contains, viz.: upabaddhāň ihā "vaha (i. 7. 7), çāsa itthā mahāň asi (i. 20. 4), yo asmāň abhidāsati (e. g. i. 19. 3), and sarvān mac chupathāň adhi (e. g. ii. 7. 1). More than a hundred cases occur in the Atharva-Veda, so that the gana upabaddhādayah must have been a tolerably stout one. I add in a marginal note a complete list of the cases, elassified.*

To give with the same detail the exceptions to the rule, or the cases in which final an remains unchanged before a vowel, would be quite useless. They are very frequent, by far outnumbering the instances of the loss of the n—thus, in the first four books of the text, against thirteen instances of an before a vowel, we have forty-one of an, and twelve of these between two padas—and they are found indifferently in all possible situations, so that it is quite impossible to lay down any rule

^{*} I. Accusatives plural: 1. before a: i.19.3; 21.2. ii. 7.1. iii. 8.3. iv. 19.5, 7. v. 5.9; 18.11; 20.8. vi.15.1, 2; 41.3; 54.3; 69.2; 72.1; 75.3; 76.4; 77.1; 113.2; 121.4; 129.2. vii. 9.2; 27.1; 57.1; 65.1; 109.4. viii. 3.6, 20; 4.14; 9.4. ix. 1.19; 2.25; 4.24. x. 2.22, 23; 5.41; 6.19, 30; 7.7; 10.6. xi. 1.29; 9. 17, 22, 24; 10.23. xii. 1.25; 2.12; 3.15 (bis), 18; 4.31. xiii. 1.53; 2.5, 18, 21. xiv. 1.45, 55; 2.5, 10. xviii. 1.45; 2.11, 13, 15, 18; 4.58, 61. xix. 6.8; 13.8; 26. 3; 32.7; 36.4; 50.4. xx. 127.7; 128.4, 5; 136.15. 2. before d: ii. 25.4. vi. 28.2. xviii. 3.55. xix.59.2. 3. before i: i. 7.7. ii. 27.5; 31.1. v. 8.1; 13.6; 23.8. vi. 22.3. vii. 117.1. 4. before u: iv. 34.7. vi. 59.2. viii. 9.23. ix. 9. 15, 19 (bis). x. 3.13, 14, 15. xii. 3.16, 40. xviii. 2.21. 5. before r: viii. 3.7. xviii. 1.18. 6. before e: xi.1.4.

II. Nominatives singular: 1. before a: i. 20. 4. iii. 16. 5. vii. 91. 1. viii. 5. 22. xiii. 2. 29 (ter). xviii. i. 24. xx. 128. 4, 8. 2. before i: vii. 92. 1. viii. 4. 2. 3. before u: xviii. 1. 22, 48 (bis).

respecting them. The loss of the n with nasalization of the vowel is evidently an old-style sandhi, going out of use, and no longer appearing except sporadically. It is interesting, as regards this sandhi and that taught in the preceding rule—which have both, as explained above, the same historical origin—to note the relations of the Rik and the Atharvan usage to one another and to the practice of the classical Sanskrit. The insertion of the s, which has become a necessary proceeding under the modern euphonic rules, is almost universal in the Atharvan, and comparatively rare in the Rik: the conversion of n into anusvara, of which the general Sanskrit grammar knows nothing, is only infrequently observed in the Atharvan, while it is made in the Rik with but few exceptions.

वृत्ताँ वनानीति वकारे ॥५०॥

28. In the passage vṛlshāň vanāni, n is converted into visar-janîya before v.

The commentator cites the passage, vrkshañ vanani sam cara (vi. 45.1), which is the only one of its kind in the text. A few such instances, of the loss of n before semivowels, with nasalization of the preceding vowel, are found in the Rik and White Yajus, and are noticed in their Praticakhyas (see R. Pr. iv. 28, r. 68, cclxxxvii, and V. Pr. iii. 135, 136).

The commentary, to explain why the rule does not read simply vrkshån iti vakåre, says sopapadasya grahanam etävattvärtham: iha må bhût: vrkshån vato vrkshån vayåh; 'the citation of vrkshån along with its following word is for the purpose of restricting the action of the rule to this particular case: the conversion is not to be made in the passages vrkshån våtah and vrkshån vayåh.' These counter-examples, however, are fabricated: no such passages occur in the Atharvan. Nor is the citation of vanåni in the rule necessary, although excusable enough: a v follows vrkshån in no other passage of the text, except in xii. 1.51, where it is separated from it hy an avasåna, and so exercises upon it no euphonic influence.

नाम्युपधस्य रेफ ऋतूँक्तसृजते वशीत्येवमादीनास्॥२१॥

29. Preceded by an alterant vowel, n becomes r in the passages $rt\hat{u}nr$ ut srjate $va\hat{\varsigma}\hat{\imath}$ etc.

All the vowels except a and \hat{a} are called $n\hat{a}min$, as tending to produce the *nati*, or conversion, of a following s into sh. The Rik Pr. (e. g. i. 17, 20) has the same term; see Regnier's note to i. 17 (r. 65, 66): the Vaj. Pr. uses instead $bh\hat{a}vin$.

The Praticakhya is to be reprehended here for not treating the cases to which this rule applies in the same manner as those coming under the preceding rules, by prescribing the conversion of n into visarjantya, and leaving it for rule 42, helow, to change the latter into r. In fact, the first two words of the rule are superfluous, and might advantageously be omitted. The origin of this peculiar and rather uncommon sandhi

is clearly the same with that of those which form the subject of rules 26 and 27. Only nine cases of it occur in the Atharvan: of these, three are cited by the commentary, viz.: rtūnr ut srjate vaçî (vi. 36. 2), mo shu panînr abhi (v. 11. 7), and dasyūnr uta bodhi (iv. 32. 6); the others are the word rtūn three times before a (vi. 61. 2, 3. vii. 81. 1), and pitṛn three times before u (xviii. 2. 4, 23; 4. 40).

The Rik Pr. (iv. 29, 30) prescribes the insertion of r after $\hat{i}n$ and $\hat{u}n$ everywhere before a vowel, except at the end of a $p\hat{a}da$ (and once even there), and in a single instance after $\hat{r}n$. The same sandhi is also made in half a dozen instances before y, v, and h. The Vâj. Pr. specifies (iii. 140) the few passages in its text where the conversion of n to r occurs after \hat{i} and \hat{u} ; and the Taitt. Pr. (ix. 20) puts the conversion of $\hat{a}n$ to $\hat{a}n$ and of $\hat{i}n$ and $\hat{u}n$ to $\hat{i}n$ and $\hat{u}n$ to $\hat{i}n$ into the same rule together.

न समैर्यतादीनाम् ॥३०॥

30. Exceptions are the passages sam âirayan tâm etc.

By the position of this rule, the gana samairayantadayas ought to include exceptions to all the preceding rules, beginning at ii. 26. Since, however, the rules 27-29 apply only to certain specified cases, it is difficult to see the necessity of specifying any exceptions to them, and we cannot help conjecturing that the present precept belongs to rule 26 alone, and should properly come in next after it, as rule 27. The first passage of the gana, sam âirayan tâm vy ûrnuvantu (i. 11. 2), is the first instance which the text presents of a n directly preceding t without the interposition of a sibilant, and the commentator goes on to cite the two next succeeding cases of the same character, viz.: kulopâ râjon tâm u te (i. 14. 3), and asmin tishthatu yâ (i. 15. 2): the three happen to be typical examples of the three principal classes of cases—verbal forms, vocatives, and locatives—in which we should not expect to see the sibilant inserted, since the forms did not originally end in a sibilant. For a complete list of the exceptions to rule 20, see the final marginal note to the exposition of that rule.

मकारस्य स्पर्शे परसस्यानः ॥ ५१॥

31. M, before a mute, becomes of like position with the latter.

The Rik Pr. (iv. 3, r. 6, ccxxv) adds the restriction visthane, 'before a mute of another class,' which is a matter of course, and does not need specification; and both it and the other treatises (V. Pr. iv. 11; T. Pr. v. 27) state distinctly what is implied in our rule by i. 95, that the sound into which the m is converted is the nasal of the same class with the following mute. The commentator gives the following instances, writing always an anusvara for the nasal into which the m is converted: san kaçayami vahatum (xiv. 2. 12), udagan jîvah (xiv. 2. 44), tan dayamanam (fabricated: no such case in AV.), san nas tebhih (ii. 35. 2), san taik paçubhih (iv. 36. 5), san nashtena (vii. 9. 4), san tvayai 'dhishimahi (xiv. 2. 17), and ma tva vrkshah sam badhishta (xviii. 2. 25). The manu-

script reads farther cântas tân nedâ 'ntahpade tavarge prakṛtyā: dur-nâmnîh sarvâh. The beginning of this is probably an additional citation, but, if it be so, it is so corrupted in reading that I am unable to trace it out. The rest is a restriction applied by the commentator himself, vârttika-like, to the action of the rule: 'in the interior of a word, m remains unchanged before a dental: e. g. durnâmnîh sarvâh (iv. 17. 5).' It is unnecessary to remark, however, that the Prâtiçâkhya has nothing to do with explaining the m of such a word, and that the commentator's emendation of his text is therefore impertinent; it is also bungling, since such a vârttika, if constructed at all, should be made to apply, not to a dental only, but to a lingual, in such words as aryamnâ.

श्रतःस्योष्ममु लोपः ॥३५॥

32. Before semivowels and spirants, it is omitted.

This omission, by i. 67, carries with it the nasalization of the preceding vowel. The commentator's examples are vrksham yad garah (i. 2. 3), pitaram varunum (i. 3. 3), sumradhuyantah sadhurah (iii. 30. 5), para dya deva vrjinam rrnantu (viii. 3. 14). ny oshatam hatam (viii. 4. 1), sam

subhûtyû (iii. 14. 1), and bhavasi sam samrddhyû (xii. 3. 21).

The Rik Pr. (iv. 5, r. 15, ccxxxiv) converts m into anusvara before the spirants and r, but treats it before y, l, and v (iv. 3, r. 7, ccxxvi) in the same manner as our treatise (rule 35, below) before l alone. The Vaj. Pr. (iv. 1, 3, 9) teaches precisely the same doctrine, but refers (iv. 4) to Kaçyapa and Çâkaţayana as holding that the m is dropped. The Tâitt. Pr. (xiii. 2) declares, like our own treatise, the m to be lost, but only before the spirants and r; before all the other semivowels it converts it (v. 28) into the nasalized semivowel, agreeing in this with the Rik Pr. and Vaj. Pr.; it also notices, however (xiii. 3), the view of the Ath. Pr. as held by some authorities.

ऊष्मस्वेवातःपदे ॥३३॥

33. In the interior of a word, it is omitted before spirants only.

As examples of the loss of m in the interior of a word before spirants, the commentary presents the whole list of examples—dve ca me vinçatic ca etc.—already given above, under i. 27, and repeated under i. 53 and i. 83. As counter-example, we have patir yah pratikâmyah (ii. 36. 8) alone. Instances of m before r in like position would not be hard to give—e. g. tâmradhûmrâh (x. 2. 11)—but it is found before l only in root syllables, as in malimlucam (viii. 6. 2), and before v only in the case which forms the subject of rule 37, below.

Both this rule and the next concern matters with which the Pratica-khya properly has no concern. Accordingly, the Rik Pr. (iv. 3, r. 7, ccxxvi) disposes of them simply by specifying that m is altered before an initial semivowel, excepting r (in connection with which, in the later rule, it omits to repeat the specification), and the Taitt. Pr. says nothing upon the subject. But the Vaj. Pr. (iv. 2) gives a precept which includes both the rule we are treating of and the one which follows it.

नकारस्य च ॥ ३८ ॥

34. As is also n.

The commentator's citations to illustrate this rule are those already once given, under i. 84, including the words $par\hat{u}nishi$, $yaj\hat{u}nishi$, and $hav\hat{v}nishi$, and, to show that n is not altered in the interior of a word before semivowels, he farther quotes $t\hat{u}ud\hat{v}$ $n\hat{u}$ $n\hat{u}$ $n\hat{v}$ $n\hat{$

The Vâj. Pr. (iv. 2) is the only other treatise which contains a rule

corresponding with this.

उभयोर्लकारे लकारो जनुनासिकः ॥ ३५॥

35. Both m and n, before l, are converted into a nasalized l.

The commentator quotes from the text, as instances of m before l, tanl* lokam (iii. 28.5), avinl lokena (iii. 29.3 etc), pratimanl lokah (xviii. 4.5); and, as instances of n before l, durgandhinl lohitasyan

(viii. 6. 12), and sarvañl lokan (e. g. iv. 38. 5).

It is perhaps to be regretted that the editors of the published text did not follow this rule of the Prâtiçâkhya with regard to both m and n. The manuscripts, however, are almost unanimous in reading only a single l after an original m, with a nasal sign over the preceding vowel (there are but two or three cases, if I recollect aright, of a doubled l), and their authority has in this respect been followed. Where an original n has disappeared, on the other hand, the manuscripts follow, not without some exceptions, the directions of the Prâtiçâkhya, and we have done the same, also without absolute uniformity.

The three other kindred works (see R. Pr. iv. 3, r. 7, ccxxvi; V. Pr. iv. 9; T. Pr. v. 28, 29) agree with one another, and disagree with our treatise, in converting m before all the three semivowels y, l, and v into those semivowels nasalized; as regards the treatment of the n, there

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is a universal accordance (compare R. Pr. iv. 4, r. 8, ccxxvii; V. Pr. iv. 13; T. Pr. v. 25, 26).

न समो राजती ॥३६॥

36. An exception is the m of sam before the root $r\hat{a}j$.

The only words coming under the action of this rule are samrâj, samrâjñî, and sâmrâjya: verbal forms from the root râj with the prefix sam are not found in the text. The commentary cites samrâd eko vi râjati (vi. 36. 3), samrâjñy edhi çvaçureshu samrâjñy uta devṛshu: nanânduh samrâjñy edhi samrâjñy uta çvaçrvâh (xiv. 1. 44). The derivative sâmrâjya (p. sâm-râjya) is found once only (xiv. 1. 43).

The other treatises duly notice the same exceptional case (see R. Pr. iv. 7, r. 23, ccxlii; V. Pr. iv. 5; T. Pr. xiii. 4); the Tâitt. Pr. alone attempting to give the rule a more general form, and declaring sam and sâm not liable to change when followed by râ: it is strange if the treatise do not thus lay itself open to the imputation of an error; onr own text, at any rate, has such forms as samrâdhayantah (iii. 30. 5).

संध्ये च वकारे ॥३७॥

37. As also, before a v which is the result of sandhi.

The passage here referred to, and cited by the commentator, is sam v åsnå ha åsyam (vi. 56. 3), where the particle u, following sam, is converted into v by iii. 39. There are two closely analogous cases—cam v astu—in the nincteenth book (xix. 10. 7, 9), which this rule is not constructed to cover, since the Atharvan text recognized by our treatise consists only of the first eighteen books of the present Atharva-Veda.

वर्गविपर्यये स्फोटनः पूर्वेण चेढिरामः॥३६॥

38. In case of a combination in the inverted order of the mute-series, there takes place *sphotana*, provided the former is a final.

Weber (p. 267) regards viparyaya as signifying here simply 'difference,' but it does not seem to me possible to give the word so general and indefinite a meaning, and the whole treatment of the subject by the two Prâtiçâkhyas goes to show, at least by negative evidence, that the cases contemplated by them are only those in which a mute of one series (varga) enters into combination with one of a preceding series, so that in the group, the natural order of the series appears inverted. The precept of the Vâj. Pr. (iv. 162) is to the effect that it either is or is not an error of pronunciation to utter a guttural after another mute with sphotana. This is in appearance a narrowing of the sphere of occurrence of the sphotana to no small extent, as compared with onr treatise: but it is almost only in seeming; for, allowing the exception made in the next following rule, there are but two combinations requiring sphotana to be found in the Atharvan in which a guttural is not the

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संध्ये च वकारे ॥३०॥

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The passage here referred to, and cited by the commentator, is sam v asna ha asyam (vi. 56.3), where the particle u, following sam, is converted into v by iii. 39. There are two closely analogous cases—cam v astu—in the nineteenth book (xix. 10.7, 9), which this rule is not constructed to cover, since the Atharvan text recognized by our treatise consists only of the first eighteen books of the present Atharva-Veda.

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second member, and each is represented by but a single case, and one of the two is in the nineteenth book of the text: they are pch (trishtupchandah, vi. 48. 3), and bj (trishtubjagatyau, xix. 21. 1). The commentator to the Vaj. Pr. (Weber, p. 266) defines sphotana to be "the separated utterance of a close combination of consonants" (pindibhûtasya samyogasya prthag uccaranam); our commentator gives no such explanation, merely paraphrasing the rule as follows: vargânâm viparyaye sphotanah sandhyo bhavati: pûrvena ced virâmo bhavati: but the text itself has already (see i. 103) defined sphotana to be a quarter or an eighth of a short a—doubtless a samveta a, or the neutral vowel. There can be no doubt, then, that the sphotana is that very brief unelosure of the organs which we often, if not ordinarily, allow to take place between two mutes standing in conjunction with one another, and of the former of which we desire to make clearer the pronunciation. In passing from a t to a k, for instance, while it is possible by an effort to make the release of the t-closure and the formation of the k-closure so truly simultaneous that nothing whatever shall escape from the mouth during the transfer, it is more natural to let so much breath slip out between as shall render audible the unclosure of the dental position, and so far relieve the imperfect or abhinihita utterance of the t, rendering it comparatively clear and distinct (sphuta). This insertion is then properly enough called sphotana, 'that which makes clear, distinct, or evident:' we have noticed above (under i. 103) that the commentator gives it also another kindred name, vyonjaku, 'manifester.' It is, under other circumstances of occurrence, very nearly the same with that release or separation of the passive and active organs of production which the Vaj. Pr. (i. 90) prescribes after the pronunciation of a final mute in the pada-text, so that the next word may begin with a new effort. That the Hindu theory allows sphotana in the combination of the phrase only in ease two mutes meet in the inverse order of the vargas to which they belong has something of arbitrariness in it, yet is not without foundation; for it may be noted, I think, that it is perceptibly harder to change from a contact farther forward in the mouth to one farther back, than to make a like transfer in the contrary direction, without allowing any intervening escape of breath or sound: and the order of the vargas follows the advance in the mouth of the place of formation.

The commentator cites, as instances of the occurrence of sphotana, vashatkårena (p. vashat-kårena, e. g. v. 26. 12), avatkam (p. avat-kam, ii. 3. 1), ejatkåh (p. ejat-kåh, v. 23. 7), trishtab gåyatrî (xviii. 2. 6), and yad gåyatre (ix. 10. 1). Of other combinations than these, the text presents pk (anushtap katham, viii. 9. 20), tkh (e. g. utkhidan [p. ut-khidan], iv. 11. 10), and dgh (e. g. padghoshâih [p. pat-ghoshâih], v. 21. 8). Whether combinations of the dental ussal with a following guttural mute are to be regarded as coming under the rule, and admitting sphotana, is rendered at least doubtful by our commentator, who goes on to say: "why does the rule say pûrvena? because of such cases as kramân ko asyâh (viii. 9. 10)." It is evident from this that he would understand pûrva as equivalent here to anuttama, 'not last in a mute-series,' i. e. 'non-uasal.' This seems to me, however, a very forced in-

terpretation, and unsupported by the usage of the word elsewhere, in this or in the other Praticakhyas. The Vaj. Pr. makes no such exception of the nasals, nor is it noticed in the verse—from the same metrical treatise, doubtless, which has often been found cited above-with which the commentary on the rule closes: varganam viparîtanam samnipate nibodhata: vyaváyî sphotanákhyas tu yad gâyatre nidarçanam; 'know ye that in the collocation of the series in their inverted order there takes place an insertion called *sphotana*: yad gâyatre is an instance of it.' am disposed, then, to look upon the exclusion of the nasals from the operation of the rule as a later gloss, foisted in upon the rule itself. There is by no means a lack of reason for making the exception; since the nasals are accompanied throughout their utterance by a free emission of intonated breath through the nose, and are by it made so distinctly audible that there is felt no impulse to give them additional clearness by the insertion of such a sound as sphotana. If the interpretation of the commentator be rejected, we shall have to add to the list of groups given above as coming under the action of the rule not only nk, of which an instance has already been cited, but also nkh (e.g. keçân khâdantah, v. 19. 3), ng (c. g. vidvân gandharvah, ii. 1. 2), and ngh (e. g. devân ghrtavatâ, iii. 10. 11). To the specification of the rule that the consonant followed by sphotana must be a final, the commentary brings up the counter-example venor adgâ iva (i. 27. 3), where the group dg, although composed of a dental before a guttural, suffers no such interposition. The term virâma, which is used once or twice also in the technical language of the other Praticakhyas, has the same signification with avasana, and denotes a pause accompanied with a suspension of euphonic influences; such as takes place in the ordinary text only where there is a sign of interpunction, or at the end of a sentence or paragraph, but in the pada-text is found after every word, and even between the two separated parts of a compound word.

न टवर्गस्य चवर्गे कात्तविप्रकर्षस्वत्र भवति तमाङः कर्षण इति ॥ ३१ ॥

39. But not in the case of a lingual before a palatal; here there takes place a prolongation of the time: and this they call kurshana.

That is to say, when a *t* comes before a *c*, or a *d* before a *j* (the only two cases which can occur under the rule), there is no separation of the two consonants by unclosure and reclosure of the organs, but the effect of the contact is merely to lengthen out the time employed in uttering the group: the name applied to this prolongation, *karshana*, 'tractio, drawing out, extension,' is not elsewhere met with in the grammatical literature. The commentator cites as examples shat ce 'mâh. (iv. 20. 2), shat ca me shashic ca (v. 15. 6), and shad jâtâ (viii. 9. 16): they are the only instances of these combinations to be met with in the Atharvan text, except one in the nineteenth book (shat ca, xix. 47. 4).

It is easy to see the physical ground of this exception to the rule pre-

seribing sphotana. The same close relationship with respect to place of utterance which causes the final palatal to pass often into a lingual, instead of reverting to the guttural out of which it originally grew, causes the lingual, in coming before the palatal, to virtually double it only. The transfer of position of the organs is too slight and easy to necessitate the emission of an intervening sound.

This is the last rule in the first section of the second chapter. The manuscript this time omits to specify the number of rules contained in the section, and adds simply dritty asya prathamuh pådah.

विसर्जनीयस्य परसस्थानो ज्घोषे ॥४०॥

40. Visarjanîya, before a surd consonant, becomes of like position with the following sound.

That is to say, applying rule i. 95, it is converted into the spirant (ûshman) corresponding in position with the following letter. before c and ch it becomes c; before t and th, sh; before t and th, s; before c, sh, and s, it is changed into each of those letters respectively: before k and kh it becomes jihvâmûliya, and, before p and ph, upadhmaniya—these last two spirants being, as already noticed, clearly implied in this rule, although nowhere referred to by name as belonging to the scheme of spoken sounds recognized by the treatise. ntya itself, then, would only stand, in sanhita, before a pause. The theory of the Prâtiçâkhya, however, is not at all the practice of the manuscripts, and the latter, rather than the former, has been followed by us in the printed text. In none of the Atharvan codices is any attempt made to distinguish the jihvamuliya and upadhmaniya from the visarjaniya—and, as we cannot but think, with much reason: since the division of this indistinct and indefinite sound into three different kinds of indefiniteness savors strongly of an over-refinement of analysis. do the manuscripts—except in a few sporadic cases, and without any agreement among one another as regards these-convert visorjuniya into a sibilant before a sibilant. In the final revision of the edited text, the rule of the Prâtiçâkhya in this respect was begun to be followed in the interior of a word (see ii. 3. 3, 5; iii. 21. 2; iv. 17. 2), but was soon neglected again, and the text in general shows visarjaniya before a sibilant in all situations. The rule that the visarjaniya is to be dropped altogether before a sibilant followed by a surd mute—a rule which is laid down by the Rik and Vaj. Pratiçakhyas, and not by our own, but which is rather more usually, although with very numerous and irregularly occurring exceptions, followed in the Atharvan mannscripts-has been uniformly carried out in the edition; although many will donbtless be inclined to think with me that, considering the varying usage of the manuscripts, it would have been better to follow the authority of the Prâtiçâkhya, and so to avoid the ambiguity occasionally arising from the omission of the final spirant.

The commentator's illustrative citations are as follows: before gutturals (kavarge: he prefixes in each case such a specification to his classes of examples), antahkoçam iva (i. 14. 4); before palatals, yaç ca dvishan

(i. 19. 4); before linguals, vrkshash tîkate (a fabricated instance: no case of this conversion is to be found in AV.: the same example occurs under Pan. viii. 3. 34); before dentals, mayas tokehhyah (i. 13. 2), avis tokani (v. 19. 2), balhikan va parastaram (v. 22. 7), yujas tuje janah (vi. 33. 1), yatha pasas tâyâdaram (vi. 72. 2), prâ 'vantu nas tujaye (vii. 49. 1), trayastrinçena jagatî (viii. 9. 20), makhas tavishyate (xviii. 1. 23); before labials, tatah pari prajatena (vi. 89. 1); before s, vâtabhrajâs stanayan (i. 12. 1: edition jâ stanayan, and this time with the assent of all the MSS. except E.), arussrânam (ii. 3. 3: I. aruhsrânam, and, in versc 5, I. and H. do.; all the others, in both cases, arusrânam; pada aruh-srânam), vivratâs sthana (iii. 8. 5: all the MSS. except H., vivratâh sthana), ati durgâs srotyâh (x. 1. 16). Instances for ç and sh are not given.

The Vâj. Pr. (iii. 8, 11) gives as taught by Câkaţâyana the doctrines of our treatise—namely, that visarjaniya becomes a sibilant before a sibilant, and jihvâmûlîya and upadhmânîya before gutturals and labials -while it states (iii. 9) that Çâkalya leaves visarjanîya unchanged before a sibilant, and itself, not deciding that point, maintains the visarjaniya before gutturals and labials. Before palatals and dentals, it preseribes (iii. 6, 7) the conversion into g and s: of the hypothetical case of an initial liugual it takes no notice. Before a sibilant followed by a surd mute, it rejects the visarjaniya altogether (iii. 12), as already noticed. The Rik Pr. likewise treats at considerable length the changes which our treatise compresses into a single rule. It first (iv. 10, r. 31, 32, ecl, ccli) gives rules which agree in all points with our own, only excepting the case of a mute followed by a sibilant, and, later, that of a sibilant followed by a surd mute, before which (iv. 12, r. 36, cclv) the visarjaniya is to be struck ont. But it then goes on (iv. 11, r. 33, 34, cclii, ecliii) to permit the retention of the spirant unchanged before gutturals, labials, and unaltered sibilants, and even, finally (iv. 12, r. 38, cclvii), to pronounce this the approved usage before gutturals and labials. The Taitt. Pr. also (ix. 2, 3) agrees with our treatise, only excepting ksh, before which visarjaniya is to remain unaltered. It then rehearses the varying opinions of other authorities: Agniveçya and Vâlmîki (ix. 4) hold that the spirant maintains its identity before gutturals and labials. while others (ix. 5) who allow it in these cases to become jihvâmûlîya and upadhmaniya, leave it unchanged before sibilants-it being specified, however, that of this number are not Plakshi and Plakshayana. The omission before a sibilant followed by a surd is mentioned (ix. 1) as the doctrine of Kandamayana.

The discordance of opinion among the ancient Hindu grammarians as to the treatment of visarjaniya before surd letters is thus shown to have been very great, the only point upon which they all agree being its conversion into s and c before dentals and palatals—or, more properly, the retention of the original sibilant in the former position, and its conversion into the nearly related palatal sibilant, by assimilation, in the latter. The assimilation to a following sibilant must, it should seem, be regarded as a more primitive mode of pronunciation than the retention of—or, more properly, conversion into—visarjaniya, which latter has become exclusively prevalent in the later language. It is possible, too, that the so-called guttural and labial spirants may have had

more of the sibilant character than the mere breathing visarjaniya, and so have been intermediate steps between the latter and the original sibilant.

स्वरे यकारः ॥ ४१ ॥

41. Before a vowel, visarjanîya becomes y.

This is an intermediate step to the total disappearance of the spirant, by ii. 21, and it is very hard to say whether the conversion into y is a matter of grammatical theory only, or whether it gives account of an actual process of phonetic transition. The rule is limited by the one which follows it, and then farther by ii. 53, so that all which remains of it is that visarjaniya is lost when following a and preceding a vowel, and when following α and preceding any other vowel than α . The commentator's citations, illustrating these two cases, are yasya upastha urv antariksham (vii. 6.4: p. yasyah: upa-sthah), madhyandina ud gâyati (ix. 6. 46), abhipaçyata eva (x. 8. 24), and sa âpah (not found in AV.: perhaps the reading is corrupt, and va apah [iii. 13. 7] or na apah [xii, 1, 30] is the passage intended).

The Taitt. Pr. (ix. 10) gives its general rule in a form closely corresponding with that of our own. The Vaj. Pr. (iv. 36) also makes the conversion of the spirant to y before elision, but restricts it formally as well as virtually to the case of a visarjaniya preceded by a and \hat{a} . The Rik Pr. (ii. 9, 10, r. 24, 27, exxviii, exxxi) follows a peculiar method: it assumes no conversion into y, nor does it declare the spirant omitted, but teaches that when the latter is preceded by a long vowel, not subject to conversion into r, and followed by a vowel, it becomes \hat{a} ; and when in like circumstances but preceded by a short vowel, it becomes a.

नाम्युपधस्य रेफः ॥ ४५॥

42. If preceded by an alternat vowel, it becomes r before a vowel.

The alterant vowels, as already noted (under ii. 29), are the whole series excepting α and \hat{a} .

The commentator's citations are agnir asinah (ix. 7. 19), vayur amitrânâm (xi. 10. 16), °syâ 'ham manyor ava jyâm iva (v. 13. 6), and tâir amitráh (v. 21. 8).

The other treatises (R. Pr. i. 20, r. 76, lxxvii, and iv. 9, r. 27, ccxlvi; V. Pr. iv. 35; T. Pr. viii. 6) combine into one this rule and the following. There is here another lacuna in the manuscript: immediately upon the citation tair amitrah follow tasya agnir vatsah and the other illustrations of the conversion of visarjaniya preceded by an alterant vowel into r before a sonant consonant, and then follow the words ghoshavati ca, before the rule avah etc. It is evident that the copyist has leaped over the rule ghoshavati ca, together with its own paraphrase, the final repetition of the preceding fule, and perhaps some of the illustrative

citations belonging to one or both of them. There is no reason whatever to suppose that anything more than this is omitted, or that any rule is lost altogether.

घोषवति च ॥ ४३ ॥

43. As also before a sonant consonant.

The remaining citations of the commentator are tasyá agnir vatsah (iv. 39.2), agner bhágah stha (x. 5.7), arátíyor bhrátrvyasya (x. 6.1), and táir medino angirasah (x. 6.20).

It has been already noticed that the other Pratiçakhyas unite this

rule with the preceding.

म्रावः करकम्र वि वर्ग्बिभरसर्वनाम्नः॥⁸⁸॥

44. Also is changed into r before a vowel or sonant consonant the visarjanîya of âvaḥ, kaḥ, akuḥ, ca vi vaḥ, and abibhaḥ—except in the case of a pronoun.

In this and the following rules, as far as the 49th inclusive, are treated the words whose final visarjaniya represents an original r, and not s, and in which, accordingly, the r is liable to reappear before a sonant initial, even though a or â precede. The Rik Pr. and Vâj. Pr. deal with this class of words in a somewhat different manner. The former, in the concluding part of its first chapter (i. 20-26) rehearses all the words of which the final spirant is rephin or riphita, 'liable to pass into r,' and then, in a later chapter (iv. 9), prescribes the conversion into r of the riphita visarjaniya before sonants. The Vaj. Pr. gives a like list (i. 160-168), and a like precept for the alteration (iv. 35). The Taitt. Pr., like our own treatise, disposes of the whole matter at once (in viii. 8-15). The words of the class are quite differently combined in the different Prâtiçâkhyas, so that any detailed comparison is impracticable: thus, for instance, the words treated in this rule of ours are found scattered through Rik Pr. i. 21, 22, 23, 26, Vâj. Pr. i. 161, 164, 168, and Tâitt. Pr. viii. 8, 9.

The cases to which the rule refers are instanced by the commentator, as follows: suruco vena åvah: åvar ity åvah (iv. 1.1), sarasvati tam iha dhâtave kah: kar iti kah (vii. 10.1), aṣam nirṛtyà akah: akar ity akah (ii. 25.1), sataṣ ca yonim asataṣ ca vi vah: var iti vah (iv. 1.1), and yam parihastam abibhar aditih putrakāmyā (vi. 81.3). It will be noticed that the commentator repeats each word to which the rule applies, with iti interposed, except in the last case, where the r appears in sanhitā. This is in accordance with the usage of the pada-text of the Rig-Veda, but not with that of the Atharvan, which in no single instance* performs parihāra of a word ending in a riphita visarjanîya; and we must accordingly regard the repetitions as taken from the krama-text, which would give such a form to the words in question, as standing at the end of a line. In the case of vi vah, we have the preceding word ca also extracted, in order to limit the rule to this particular passage, or, as the commentator has it, etâvattvārtham (compare note to ii. 28). The cases

^{*} Excepting in the twentieth book, whose pada-text is shown by this and other peculiarities to he merely a putting together of extracts from that of the Rik.

intended to be thus excluded must be such as vi vo dhamatu (iii. 2. 2), but they are sufficiently provided against by the final specification of the rule, "when the word is not a pronoun," and I do not see how the citation in the text of both the ca and the vi can escape the charge of superfluity. As counter-examples, illustrating the necessity of the final specification, the commentator cites hironyavarna atrpam yada vah: va iti vah (iii. 13. 6), and yatre 'dam veçayami vah (iii. 13. 7): he does not choose to notice the fact that these cases are also excluded by their lacking a preceding ca vi; and he gives no instances of kah as a pronoun, as it was his duty to do. All the other treatises distinguish the kah whose final is riphita by calling it anudatta, 'unaccented,' which compels them then farther to specify the cases in which the verbal form kah (kar) happens to be accented.

The term sarvanaman, 'all-name,' used to denote a pronoun, is an ingenious and interesting one; it is not found in either of the other treatises, but is employed by Panini. Naman, 'name,' includes substantives, adjectives, and pronouns; but while the two former, being descriptive of quality, are restricted in their application to certain objects or classes of objects, a pronoun may be used of anything indiffer-

ently; it is a title of universal applicability.

दार्वारिति ॥ ४५ ॥

45. Also that of dvah and vah.

The commentator cites prathamâ dvâh: dvâr iti dvâh (ix. 3. 22), tasmâd vâr nâma (iii. 13. 3), and divyam ghṛtam vâh: vâr iti vâh (xviii. 1. 32); repeating, as under the previous rule, the final words of the half-verses, as they would be repeated in the krama-text.

ग्रजकातेर काः ॥ ४६ ॥

46. Also that of ahâh, except it be from the root hâ.

An equivalent and, one would think, preferable form for this rule would have been harater ahâh, 'ahâh when coming from the root har (hṛ).' The commentator's examples are indras tân pary ahâr dâmnâ (vi. 103. 2, 3), iha râshtram â 'hâh (xiii. 1. 4: the commentator, or the copyist, omits to add ahâr ity ahâh), and agnish ṭad â 'hâh (vii. 53. 3: here is added ahâr ity ahâh, but it is out of place, the word not standing in pausa; perhaps the parihâra has slipped away from its proper place after the preceding citation to this: but then the word following ahâh should also have been quoted in the last passage, and it should read agnish ṭad â 'hâr nirṛteḥ). As counter-example, to show that ahâh from the root hâ forms no exception to the general rule respecting a visarjanîya, the commentator cites ahâ arâtim (ii. 10. 7).

रकामिलते रौदिवचनातस्य ॥४०॥

47. Also that of the vocative singular of a noun whose dual ends in râu.

The commentator first cites three phrases, of which the first two are not to be found in the Atharvan, and the third belongs nnder the next following rule—viz. dhâtar dehi, savitar dehi, punar dehi (xviii. 3. 70: bnt possibly the three phrases form a single passage together, and are a genuine citation from some other text)—and then adds two genuine and appropriate instances: bhûme mâtar ni dhehi (xii. 1. 63), and tracam etâm viçastah: viçastar iti vi-çastah (ix. 5. 4). He goes on to give counter-examples: first, to show that the conversion into r takes place only in a singular vocative, he cites a passage—dâivyâ hotâra ûrdhvam (v. 27. 9)—containing a plural vocative from a theme of the sainc character; and second, to show that a vocative of such a theme only is treated in the manner described, he cites the vocative singular of a theme in as, which has sâu and not râu in the dual, viz. tavishasya pracetah: praceta iti pracetah (iv. 32. 5); adding pracetah sâudvivacanântam.

Here, as in more than one other instance, our treatise shows a greater readiness than the others to avail itself of the help of grammatical categories in constructing its rules: all the other Prâtiçâkhyas laboriously rehearse in detail, one by one, the words which are here disposed of as

a class, in one brief rule.

त्रतः पुनः प्रातः सनुतः स्वर्व्ययानाम् ॥⁸८॥

48. Also that of antah, punah, prâtah, sanutah, and svah, when indeclinables.

The final specification is intended only for the first and last words of the series, antah being possible as nominative singular of anta, and svah of sva. The commentator illustrates as follows: antardåve juhutå (vi. 32. 1), punar måi "'tv indriyam (vii. 67. 1), pråtar bhagam påshanam (iii. 16. 1), sanutar yuyotu (vii. 92. 1), svar no 'pa två (ii. 5. 2). As counter-examples, to show the necessity of the specification "when indeclinables," he gives yo nah svo yo aranah sajåtah (i. 19. 3), samagrah samantah: samagra iti sam-agrah: samanto bhûyâsam: samanta iti sam-antah (vii. 81. 4: the commentator thus gives the krama-text for the passage samagrah samanto bhûyâsam).

The other treatises exclude the noun anta by defining the accent of antah, and the Rik Pr. treats svàh in the same way—a method which renders necessary considerable additional limitation and explanation.

स्वर्षाश्च ॥ ४१ ॥

49. And that of svah, also in svarshah.

The commentator cites the passage, cusham agriyah svarshah (v. 2.8). The reason of the word ca in the rule, he says, is that the following letter is a surd; and he adds that the spirant becomes r only in sanhita, the pada form being svah-sah: this last is rather a gratuitous piece of information.

<mark>ऋर्क्तपुंसकम्</mark> ॥५०॥

50. Also that of ahah, when neuter.

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The examples quoted from the text are yad aharahar abhigachâmi (xvi. 7.11), and ahar mâ 'ty apîparaḥ (xvii. 25). As counter-examples, to show that the final is liable to become r only when the word is neuter, we have samaho vartate (not in AV.), and dvâdaçâho 'pi (xi. 7.12).

The passages in which the other Praticakhyas take note of this irregnlar change of ahas are Rik Pr. i. 26 (r. 103, civ), Vaj. Pr. i. 163, and

Tâitt. Pr. viii. 8, 13.

The next rule furnishes exceptions to this one.

न विभक्तिद्वपरात्रिर्थंतरेषु ॥५१॥

51. But not before a case-ending, or the words rûpa, râtri, and rathamtara.

As examples of ahah before case-endings, the commentator gives us ahobhyam and ahobhih, but the latter of them (xviii. 1. 55: p. ahah bhih) is the only instance of the kind which the Atharvan text contains. For the compound ahoratre he cites two cases, ahoratrabhyam nakshutre-bhyah (vi. 128. 3), and ahoratre idam bramah (xi. 6. 5): it is a word of frequent occurrence. For the combinations of ahas with following rapa and rathamtara are quoted yad aho rapani dreyante, and yada ho rathamtaram sama giyate, neither of which passages is to be found in the Atharvan. It is a very suspicious circumstance that a vartika to a rule of Panini's (viii. 2. 68) mentions the same three exceptions which our rule gives: and it is very probable that our treatise in this case, as in several others, has constructed its rule so as to include all the cases noted as occurring in general usage; and hence, that the two phrases quoted are not necessarily to be regarded as having constituted a part of the Atharvan text for which the Praticakhya was composed.

The Rik Pr. (iv. 13, r. 40, cclix) makes exceptions only of ahobhih and ahorâtre; the Vâj. Pr. (i. 163) excepts cases in which ahah is followed by bh; the Tâitt. Pr. (viii. 13, 14) teaches the conversion of the final of ahah into r when it is not the final member of a compound, nor fol-

lowed by bhih or bhyam.

ऊधोऽम्नोभुवसाम् ॥५५॥

52. Nor is the visarjanîya of ûdhaḥ, amnaḥ, and bhuvaḥ convertible into r.

This rule is utterly idle in our treatise, since no precept has been given which should in any way require or authorize the conversion into r of the final of these words. The original form of $\hat{u}dhas$, however, is $\hat{u}dhar$, as is clearly shown by the comparison of the kindred languages (obvag, Euter, udder), and by its treatment in the Rig-Veda; and the Rik Pr., accordingly (i. 22, r. 97, 98, xeviii, xeix), has to give rules respecting it. Neither of the other treatises takes notice of it or of either of the words here associated with it. All three, however, are noted by Panini (viii. 2.70, 71), as words which may or may not, in Vedic use, change their final into r; and the instance there cited for bhuvoh, bhuvo viçveshu bhuvaneshu, looks as if it were meant to be the same which

our commentator gives, viz. bhuvo viçveshu savaneshu yajāiyah, and which is not to be found in the Atharvan. The commentator farther cites for bhuvah an actual Atharvan passage, bhuvo vivasvān anvātatāna (xviii. 2. 32); but even here it would hardly be necessary to understand the word as having the same meaning as in the mystic trio bhūr bhuvah svar, with which the later religious philosophy amuses itself. For ūdhah and amnah, the examples quoted are yo asyā ūdho na veda (xii. 4. 18), and ye anno jūtān mūrayanti (viii. 6. 19: the only case).

श्रकारोपधस्योकारो ज्कारे ॥ ५३ ॥

53. When preceded by a, visarjanîya becomes u, before a following a.

And this u, of course, combines with the preceding a, so that the all becomes o, as is directly taught by the other treatises (R. Pr. ii. 12, r. 33, exxxvii; V. Pr. iv. 42; T. Pr. ix. 7). The instances cited are paro pe'hy usamrddhe (v. 7. 7), and paro pe'hi manaspapa (vi. 45. 1). For

the treatment of the following initial a, see iii. 53, 54.

This rule is much mutilated by the copyist, both in its first statement (akâro 'kâre) and in its final repetition (akâropadhasyokâre), so that its true form is only restorable from the commentator's paraphrase, which reads akâropadhasya visarjanîyasyo 'kâro bhavati: akâre paratah. Evidently the triple recurrence of the syllables kâro, kâre, kâre bothered the copyist's weak head, and he stumbled from the one to the other of them in an utterly helpless manner.

घोषवति च ॥५४॥

54. As also before a sonant consonant.

The commentator's illustrations are tathá saptarshayo viduh (iv. 11.9), tad vái brahmavido viduh (x. 8.43), and tasyâm naro vapata bîjam asyâm (xiv. 2.14).

The corresponding rules of the other treatises are Rik Pr. iv. 8 (r. 25,

ecxliv), Vâj. Pr. iv. 41, and Tâitt. Pr. ix. 8.

त्राकारोपधस्य लोपः ॥ ५५ ॥

55. When preceded by \hat{a} , it is dropped.

That is to say, it is so treated in the position defined in the last rule, before a sonant consonant; the case of ah before a vowel was included in ii. 41, above. The commentator cites anamîvâ vivakshavoh (ii. 30. 3), dhîrâ deveshu (iii. 17. 1), and ekaçatam tâ janatâ yâ bhûmih (v. 18. 12), which last passage contains three cases of the application of the rule.

The corresponding rule of the Vaj. Pr. is found at iv. 37, that of the Taitt. Pr. at ix. 9. The Rik Pr. (iv. 8, r. 24, ccxliii) teaches that the visarjaniya (along with its preceding vowel, of course) in such a case passes into \hat{a} —which is a peculiar way of saying the same thing.

शेपरुर्षणीं वन्दनेव वृत्तम् ॥५६॥

56. As also in çepaharshanîm and vandane 'va vrksham.

The commentator cites the two passages: oshadhim cepaharshanim (iv. 4. 1: p. cepah-harshanim) and vandane 'va vrksham (vii. 115. 2: p. vandanah-iva). The former is a striking case of arbitrariness in etymologizing on the part of the authors of the pada-text, for there is neither necessity nor plausibility in treating the compound as if made up of gepas and harshana: the former member is evidently gepa, which in the Atharvan is much the more common of the two forms of this word. And as for the other case, of elision of the visarjaniya before iva and contraction of the two vowels into a diphthong, it is equally surprising to find this one singled out to be so written, from among the many in the text which are to be so read. For the contraction of a final syllable, ending either in an original s or m, with the following particle of comparison iva, so that the two together form but two syllables, is the rule rather than the exception in the Atharva-Veda. Out of 59 instances in the text, in which a final ah occurs before iva, there are only 13 in which the metre shows the sandhi to be regular: in 46 cases we are to read e'va; am iva is contracted in the same manner 25 times out of 40; ah iva, only 4 times out of 19; im iva, 3 times out of 5; ih iva, 7 times out of 10; uh iva, 6 times, or in every instance the text contains; um iva, only once out of 3 times: and there are single sporadic cases of a similar elision after the terminations eh, au, an, ad, ud, which would pass without notice, as mere irregularities of metre, were it not for their analogy with the others I have mentioned, but which, considering these latter, are worth adverting to, as illustrations of the same general tendency.

रृष स व्यञ्जने ॥५७॥

57. As also in eshah and sah, before a consonant.

The instances selected by the commentator are esha priyah (ii. 36. 4), and sa senām mohayatu (iii. 1. 1).

All the other treatises (R. Pr. ii. 4, r. 11, 12, cxv, cxvi; V. Pr. iii. 15, 16; T. Pr. v. 15) include syah in the same rnles with eshah and sah: the word, however, nowhere occurs in the Atharvan text.

न सस्पदीष्ट ॥५८॥

58. But not in the passage sas padîshţa.

The passage, adharah sas padishta (vii. 31. 1), is cited by the commentator. It is one which occurs in the Rig-Veda also (iii. 53. 21), and is noticed by its Praticakhya (iv. 20, r. 58, cclxxvii).

दीर्घायुवायादिषु ॥५१॥

59. Visarjanîya is also dropped in dîrghâyutvâya etc.

Besides the word dirghâyutvâya (e.g. i. 22.2: p. dirghâyu-tvâya), which is of frequent occurrence in the Atharvan, the commentary cites atho sahasracaksho tvam (iv. 20.5: p. sahasracaksho iti sahasra-caksho), and barhishadaḥ (xviii. 1.45, 51: p. barhi-sadaḥ). In all these cases, it will be noticed, the lopa of the visarjaniya is made in the pada-text, as well as in sanhitâ, as is directed in a later rule (iv. 100). In the two first, there is an actual substitution of the themes âyu and cakshu for the usual âyus and cakshus; in the other we are to assume, rather, that the final of barhis is lost in making the sandhi, and we have a right to be surprised that the pada-text does not give us barhiḥ-sadaḥ.

Here ends the second section of the second chapter: the signature is: 59: dvittyasya dvittyah pådah.

इर् उकारो दाशे परस्य मूर्धन्यः॥६०॥

60. The visarjanîya of duh becomes u before daça, and the following dental is replaced by a lingual.

That is to say, duh becomes dû, and dâça, dâca, making dûdâça. The passage containing the word is cited by the commentator, as follows: yenâ dûdâçe asyasi (i. 13. 1); and he adds sanhitâyâm ity eva: durdâca iti duh-dâce; this is the form the word would assume in the kramatext: the pada reads simply duh-dâge. The theme of the word is rather dûdâg than dûdâga.* The commentator says farther: apara âha: dhânâçadâçadabhayeshu lupyeta upadhâyâç ca dîrghah tavargîyasya tavargiya iti: dûdâçah: dûdabhah: dûdhyah: ava dûdhyo jahi; 'another says, before dhâ, nâça, dâça, and dabha, the visarjanîya is dropped, the preceding vowel is lengthened, and a lingual substituted for a dental: thus, dûdâçah, [dûnâçah], dûdabhah, dûdhyah; ava dûdhyo jahi (Rig-Veda i. 94. 9).' Of these words, only the one mentioned in our rule is found in the Atharvan; the others occur in the Rik, and are the subject of a rule of its Prâtiçâkhya (v. 24, r. 55, ccclxxi). A part of them are also noted by the Vaj. Pr. (iii. 41, 42). The Atharvan has duh-naça (v. 11.6), but treats it according to the regular methods of combination, making durnaça in sanhitâ.

श्रुनि तकारः ॥ ६१॥

61. Before cun, it becomes t.

This is intended merely as an explanation of the mode of formation of the word ducchuna, which is accordingly to be regarded as passing through the stages duh-suna, dut-suna, and hence (by ii. 13, 17) ducchuna. Two instances of its occurrence are cited: duchunam gramam (v. 17. 4), and tad rashtram hanti duchuna (v. 19. 8). As the pada-text does not analyze the word, but writes it simply duchuna, this rule is properly superfluous, and we have a right to wonder that it was intro-

^{*} It is quite probable, however, that $d\hat{a}_{i}a$ in the rule means, not 'the theme $d\hat{a}_{i}a$ ', but 'the root $d\hat{a}_{i}$ '.

duced into our treatise, rather than, with Weber (p. 187, 188) to be surprised that nothing like it is found in the Vâj. Pr.

समासे सकारः कपयोर्नतःसद्यःश्रेयश्हन्द्साम् ॥ ६५ ॥

62. In a compound, it becomes s before k and p, excepting in the case of antah, sadyah, creyah, and chandah.

The citations given in illustration of the rule are udhaspadom (e.g. ii. 7. 2: p. adhah-padam), pîbasphâkam (iv. 7. 3: p. pîbah phâkam), namaskarena (iv. 39.9: p. namah karena), and yo viçvataspanir uta viçvatasprthah (xiii. 2. 26: p. viçvatah panih; viçvatah-prthah). With regard to the second of these, I would remark that its treatment by the pada-text, and its citation under this rule, secm to depend upon a false etymology, inasmuch as its final member is plainly not phaka, but sphâka, a word allied with sphâna and sphâti, repeatedly met with elsewhere; in the combination pibah-sphaka, then, the final of the first member has disappeared, according to the rule of the Rik Pr. and Vaj. Pr. (spoken of above, under ii. 40) for the loss of a visarjaniya before a sibilant followed by a surd mute. The commentator then cites in full the passages illustrating the exceptions, viz. antahkoçam iva (i. 14. 4), antahpatre rerihatîm (xi. 9. 15), sadyahkrîh (xi. 7. 10), çreyahketah (v. 20. 10), and chandahpakshe (viii. 9. 12). Next follows what has the appearance of being another rule, with its commentary; parahparah: para iti ca "mreditasamase na sakaro bhavati: tvat parahparah; 'parahparah: the visarjaniya of parah also does not become s in a compound of repetition; e.g. tvat parahparah (xii. 3. 39).' This is not, however, regarded by the commentator as a rule, since after it he gives, as final repetition before the next rule, our rule 62, samase chandasam. It is also evidently not to be reckoned as a rule, on account of its interrupting the anuvrtti, or implication by inference from the preceding rule, of visarjaniyah sakaro bhavati, which continues to the end of the section. It must be looked upon as a vârttika, or secondary limitation by another hand, of the rule under which it is introduced. Respecting the propriety of its introduction, moreover, there may be question. The only other case of the kind occurring in the text is parushparuh (e.g. i. 12.3), which, as we shall see, is cited by the commentator under rulc 80, below: as it ought not to be if it belongs under our present rule. It may be, then, that such cases of repeated words are not regarded as distinctly enough compounded to be entitled to the unqualified name samasa, 'compound.'* They seem, however, to be treated as regular compounds by the other Praticakhyas, and our own padatext makes no distinction between them and the rest, writing paruh--paruh precisely like váta-jáh, for example.

Our manuscripts are not consistent or unanimous in their mode of treatment of the class of compounds to which this rule relates, one or more of them, in several instances, retaining the final visarjaniya of the

^{*} The same thing appears from their separate mention in the fourth chapter (iv. 40), as if not included among regular compounds (iv. 9).

first member, instead of changing it into the sibilant: in a single case (âyuhprataranah, iv. 10.4), they all agree in so doing: we have, however, regarded this coincidence as accidental, and adopted in the published text the reading which the Prâtiçâkhya requires.

Rule ii. 81, below, directs the conversion into sh, after an alterant vowel, of the dental sibilants prescribed by this and the following rules

of the section.

The other treatises (R. Pr. iv. 14, r. 41, cclx; V. Pr. iii. 29; T. Pr. viii. 23) give the same general precept for the conversion of visarjaniya into a sibilant before k and p, and detail the exceptions in following rules.

निर्द्वराविर्हिविरसमासे जिप ॥ ६३॥

63. The visarjanîya of nih, duh, âvih, and havih becomes s before k and p, even elsewhere than in a compound.

The particle duh never appears in the Atharvan text except as compounded with other words, but it would seem from this rule that the compounds which it forms are not entitled to the name samasa. The commentator cites as examples dushkrtam (e.g. iv. 25.4) and dushpitam (not found in AV.; take instead dushpratigraha [x. 10. 28], the only like case which the text affords): both are also given in illustration of the corresponding rule of Panini (viii. 3.41). Dushkrt and dushkrta are the only words in our text in which duh is followed by k. The preposition nih becomes nish before k only, and, excepting a single case (nishkrîtah, ii. 34. 1), only in verbal forms and derivatives of the root kar: the commentator cites one of them, viz. kushthus tat sarvam nish karat (v. 4. 10). But it occurs three times before k and p in the accidental combinations of the phrase (viz. nih kravyadam, xii. 2. 16 [B. I. nish kr°]; do. xii. 2. 42; nih prthivyâh, xvi. 7. 6), and the manuscripts almost without exception read there nih, which has been adopted in the edition as undoubtedly the true reading. Avih occurs only in connection with forms of the root kar (sometimes not immediately combined with them): the commentator instances avish krnushva rūpani (e. g. iv. 20. 5), and avish krnute rapani (not found in AV.). Havih becomes havish but once, in the passage havish krnvantah parivatsarinam (iii. 10. 5), which the commentator cites: it evidently forms here a kind of half-compound with kar. For this word the commentator is himself obliged to instance an exception, as follows: tato 'pa vadati: havih purodaçam; 'from this is to be made the exception havih purodaçam (xviii. 4. 2).' The rule is evidently not entitled to much credit as a clear and complete statement of the phenomena with which it is intended to deal.

त्रिः ॥ ६८ ॥

64. As is also that of trih.

The only case in the text coming under the rule is apâlâm indra trish pâtvâ (xiv. 1.41): the commentator cites it, and adds also trish kratvâ,

trish prakarena, not found in the Atharva-Veda. The Rik Pr. treats the same case in iv. 24 (r. 63, cclxxxii).

कुरुकरंकरत्कृणीतुकृतिकृधिष्ठकर्णयोः ॥ ६५ ॥

65. As also a visarjaniya, except that of karnayoh, before kuru, karam, karat, krnotu, krti, and krdhi.

The cases to which this rule is meant to apply are of very different frequency of occurrence, and the rule itself is of very different degrees of accuracy as concerns the forms mentioned. For kuru, the commentator cites pitrbhyaç ca numas kuru (xiv. 2. 20), the only instance in which this rare form (found elsewhere only at xi. 9. 1, and its repetitions in the same hymn) is preceded in the pada-text by visarjaniya. karam we have cited suboddham amutas karam (xiv. 1. 18): also the only instance. For karat, the instance sammanasas karat (vii. 94. 1) is given: the text also affords jangidas karat (xix. 34. 2, 10; 35. 5), and, besides this, only nish karat (e.g. ii. 9.5). Under krnotu, the commentator remarks krnotv ity atra tridhatve'ti vaktavyam, 'nnder krnotu it should have been noted that the change occurs only in three cases: and he proceeds to cite the three cases, viz. dîrgham âyush krnotu (vi. 78. 3), agnish krnotu bheshajam (vi. 106. 3), and manish krnotu devajah (x. 6.31). In all these passages, however, the manuscripts read, without dissent, visarjaniya before the k, and the edition has followed their authority (except in vi. 106.3, where, by some oversight, sh has been introduced). Other instances in which krnotu has an unaltered visarjaniya before it are tolerably numerous,* and nowhere among them does a single codex read s or sh. The next word, krti, is one which, for a double reason, has no right to a place in the rule: in the first place, it occurs nowhere except in compounds; and secondly, it converts into a sibilant only the preceding visarjaniya of nih and havih, and so would be sufficiently provided for by rule 63, even if not adjudged to fall under The commentator cites for it tasya tvam asi nishkrtih (v. 5. 4). Finally, krdhi actually shows a marked tendency to preserve the original final sibilant of the preceding word, and does it in numerous instances: the commentator cites two of them, viz. anamitram puras krdhi (vi. 40. 3), and se 'mam nish kṛdhi pûrusham (v. 5. 4: this belongs rather under rule 63); the only exception is that noticed in the rule, and cited by the commentator, viz. mithunam karnayoh krdhi (vi. 141. 2). Besides these, we have, of forms from the root kar, tiras karah (iv. 20. 7), which the commentator cites under rule 80, below, but which has as good a right to be specially noted in this rule as one or two other of the cases the latter contains. Not much can be said in praise of the way in which the rule is constructed.

The other Prâtiçâkhyas (R. Pr. iv. 15, r. 43, cclxii; V. Pr. iii. 22, 28, 31; T. Pr. viii. 25, 26) treat these cases in nearly the same way: whether with no greater accuracy, I cannot say.

^{*} They are vi. 40.1, 2; 53.3; 73.3; 83.1; 104.3. vii. 32.1; 33.1; 51.1; 91. 1. viii. 8.4. ix. 2.7; 4.2. xi.1.6. xii. 1.1, 43.

[†] They are i. 13. 2; 26. 4; 34. 1. v. 5. 4 (H. I. hk). vi. 40. 3; 74. 3; 136. 2. vii. 20. 2; 26. 3. viii. 5. 17. xix. 8. 6.

ततस्परी ब्रह्मपरे ॥ ६६॥

66. Also the visarjaniya of tatah before pari, when the latter is followed by brahma.

The case referred to, and cited by the commentator, is tatas pari brahmana (i. 10.1). As counter-example, to show that it is only before brahma that the change takes place, is quoted tatah pari projatena (vi. 89.1); one other such case is afforded by the text, but in the nineteenth book (xix. 57.6). A similar case, in which the suffix tah becomes tas before pari, is sindhutas pari (iv. 10.4 and vii. 45.1); the Pratiçakhya takes no notice of it, if it be not intended to be included in the gana with which the section concludes (ii. 80).

पञ्चम्याश्चाङ्गेभ्यःपर्यादिवर्जम् ॥ ६७॥

67. Also the visarjanîya of an ablative before pari, except in angebhyah pari etc.

The Rik Pr. (iv. 15) and Vâj. Pr. (iii. 30) give the additional specification that the pari must be at the end of a pâda, or before a pause, and the addition of that restriction to our own rule would have made it accurate, and obviated the necessity of the gana. The instances and counter-instances are both tolerably numerous, and are detailed in a marginal note.* The commentator cites, as instances, kushtho himavatas pari (xix. 39. 1), jâtam himavatas pari (iv. 9. 9 and v. 4. 2), and vidyuto jyotishas pari (iv. 10. 1); and, as counter-instance, the passage heading the ganz, prânım angebhyah pary âcarantam (ii. 34. 5). The instance first cited is the only one anywhere to be found, in the text or in the commentary of our treatise, which seems to come from the nineteenth book of the present Atharvan text: but I do not regard its occurrence as by any means to be taken for an evidence that that book constituted a part of the commentator's Atharva-Veda; it is to be explained rather as a slip of his memory in quoting, or as a reading of one of his kushtha hymns, differing from that of our text.

दिवस्पृथिव्यां सचितिवर्जम् ॥ ६०॥

68. Also that of divah before pṛthivî, except when the latter is followed by the root sac.

The commentator cites two of the passages to which the rule relates, viz. divas pṛthivyā antarikshāt samudrāt (ix. 1. 1), and divas pṛthivim abhi ye srjanti (iv. 27. 4). The text affords three others, viz. vi. 100. 3;

^{*} Cases of an ablative in s before pari at the end of a pâda: i. 10. 4. iv. 9. 9; 10. 1; 15. 10. v. 4. 2. vi. 111. 3. vii. 38. 2; 53. 7. viii. 4. 5. x. 1. 32. xi. 2. 4. xiv. 2. 44. xix. 39. 1, 5.

Cases of an ablative in h before pari not at the end of a pida: ii. 34.5. vi. 125. 2 (bis). vii. 56.1. viii. 9.4. ix. 4.10. x. 7.25. xiii. 1.26. xix. 3.1; 35.4 (bis); 44.8,9; 45.5; 57.6.

125. 2. xix. 3. 1. The only counter-instance is that mentioned in the rule, and given in full by the commentator, viz. â yanti divah prthivîm

sacante (xii. 3. 26).

The Rik Pr. (iv. 20, r. 57, cclxxvi) adds the restriction that the conversion into the sibilant occurs only when divah begins a pada. This would be correct also, if made a part of our own rule. The other two treatises do not apparently note any such cases as occurring in their texts.

पृष्ठे च ॥ ६१॥

69. As also before prshtha.

The commentator cites a single case, divas prehthe dhâvamânam suparnam (xiii. 2. 37). The others are iv. 14. 2. xi. 5. 10. xii. 2. 12. xiii. 4. i. xviii. 1. 61. To show that only divah is subject to this change of its final before prshtha, the commentator instances bhûmyah prshthe vada (v. 20. 6).

The original sibilant of divas also maintains itself before p in two other cases, viz. divas putrau (viii. 7. 20) and divas payah (xix. 44. 5). With the latter our treatise has nothing to do: the former it lets fall. apparently, into the barathrum of the gana which closes the subject and the section (rule 80).

Compare Rik Pr. iv. 22 (r. 61, cclxxx), and Vaj. Pr. iii. 23.

यः पतौ गवामस्याःपरवर्जम् ॥७०॥

70. Also that of yah before pati, except when gavâm and asyáh precede.

Nearly all the passages of the text to which the rule relates are cited by the commentator; they are divyo gandharvo bhuvanasya yas patih (ii. 2. 1), mrdad gandharvo bhuvanasya yas patih (ii. 2. 2), and dhata vidhata bhuvunasya yas patih (v. 3. 9): to be added are only bhavishyad bhuvanasya yus patih (xiii. 3. 7), and yani cakara bhuvanasya yas patih (xix. 20. 2). The exceptions are also cited, as follows: gavâm yah patih (ix. 4. 17), and dîrghâyur asyâ yah putih (xiv. 2. 2). One cannot but think that a better form for the closing restriction of the rule would have been "whenever bhuvanasya precedes."

These cases are not distinguished by the Rik Pr. and Vaj. Pr. from

those coming under our next rule.

षश्चाश्चाशच्याः ॥७१॥

71. Also the visarjaniya of a genitive, excepting that of çacyáh, becomes s before pati.

The cases coming under this rule are almost innumerable, and it would be a waste of labor to specify them in full. The commentator cites four, viz. vacas patih (e.g i. 1. 1), ushas patih (xvi. 6. 6), brahmanas patih (e. g. vi. 4. 1), and jagatas patih (vii. 17. 1). The only exception is that

which the rule mentions; the commentator cites it: arâtyâh şacyâh

patih (xiii. 4. 47).

The other treatises bring together all the cases of conversion into a sibilant before poti, and give their rules a more empirical form (see R. Pr. iv. 15, r. 42, cclxi; V. Pr. iii. 34; T. Pr. viii. 27).

इडाग्रास्पदे ॥७५॥

72. Also that of idáyáh before pada.

The passage is idaya's padam (iii. 10. 6). The commentator gives a counter-instance—hastinyah padena (vi. 70. 2)—to show that only the

genitive idâyâh undergoes this change before pada.

That the rule is not so framed as to include also the closely analogous case idas pade (vi. 63. 4), the only other one in the text where an original final sibilant is preserved before pada, gives reason to suspect that the verse containing it was not in the commentator's Atharvan: a suspicion which is supported by the peculiar mode of occurrence of the verse, at the end of a hymn with the subject of which it has nothing to do. It looks as if it had been thrust in at the end of vi. 63, because in the Rik text (x. 191) it preceded the verses of which vi. 64 is composed.

Compare Rik Pr. iv. 17 (r. 49, cclxviii), and Vaj. Pr. iii. 22, which

note both the cases.

पितुः पितरि ॥ ७३ ॥

73. Also that of pituk before pitar.

The commentator cites yas tâni veda sa pîtush pitâ 'sat (îi. 1. 2), and a similar phrase is found once more in the text (at ix. 9. 15). On the other hand, we have three cases in the eighteenth book (xviii. 2. 49; 3. 46, 59) in which pituh stands before pitaruh, and, by the unanimous authority of the manuscripts, maintains its visarjonîya. We must suppose either that the Prâtiçâkhya and its commentator overlooked these passages, or that they did not stand in the text contemplated by them, or that they stood there with the reading pitush pitarah.

The Rik Pr. notes a similar case at iv. 25 (r. 64, celxxxiii).

चौश्च ॥ ७४ ॥

74. As also that of dyauh, in the same situation.

The commentator instances dyaush pitar yavaya (vi. 4. 3*), and

^{*} The manuscripts vary somewhat in their reading of these words, both as regards the sibilant and the accentuation: only I gives the sh which the Prâtiçâkhya requires; the rest have h. Bp and I accent dya'nsh, the others dya'ush. There can be no question that the latter is the true method: the word must be divided into two syllables in reading, and the vocative accent of an initial syllable belongs only to the former of the two: thus $di \cdot aush$; which, when written together as a single syllable, becomes, of course, dy'aush. One or two other like cases are found in the text.

dyaush pitar nyunn adhoran (not found in AV.). At iii. 9.1, where the two words occur again in connection, all the MSS. excepting I. and H. give dyaush, and the edition reads the same. At iii. 23.6, every codex presents dyauh, which was accordingly received into the edited text: and the same reading was adopted at viii. 7.2, where the same line occurs again, although two of the MSS. (W. and I.) there have dyaush. It might have been better, considering the discordance of the manuscripts, and the consequent inferior weight of their authority, to allow the Pratiçakhya to determine the reading of all these passages.

Like cases occurring in the Rik and Vajasaneyi are treated in their

Prâtiçâkhyas (R. Pr. iv. 23, 24; V. Pr. iii. 33).

ऋायुः प्रथमे ॥ ७५ ॥

75. Also that of ayuh before prathama.

The passage is cited by the commentator: ayush prathamam prajam posham (iv. 39. 2, 4, 6, 8), but, in every case of its occurrence, the manuscripts read without dissent ayuh. The edition, however, has in this instance followed the authority of the Praticakhya.

प्रे मुषिजीवपरे ॥७६॥

76. As also before pra, when followed by the roots mush or jîv.

The two passages to which the rule relates are mâ na âyush pra moshîh (viii. 2.17), and dîrgham âyush pra jîvase (xviii. 2.3). In both passages, however, all the manuscripts read âyuh—as does our own commentary, in citing them—and the printed text does the same. As counter-example, the commentator brings forward jîvânâm âyuh pra tira (xii. 2.45); other cases are viii. 2.2 (where P. reads âyush both times) and xix. 32.3.

परिधिः पतातौ ॥ ७७॥

77. Also that of paridhih before patâti.

The passage is yathâ so osya paridhish patâti (v. 29. 2, 3), and the manuscripts are unanimous in supporting the reading prescribed by the Prâtiçâkhya.

निवतस्पृणातौ ॥७६॥

78. Also that of nivatah before prnati.

That is, in the passage ya viçva nivatas pṛṇāti (vi. 22. 3), as is read by all the MSS.

मनस्पापे ॥७१॥

79. Also that of manah before papa,

The commentary cites the passage: paro 'pe'hi manaspâpa (vi. 45. 1). The pada-text regards manaspâpa as a compound, writing it manah-pâpa. Its separate mention by the Prâtiçâkhya would seem to indicate that the latter regards the two words as independent; since, as a compound, it would fall under rule 62, and would need no special notice. The accentuation does not help to settle the question, and the sense is nearly as good one way as the other.

रायस्योषादिषु च ॥ ६० ॥

80. Also that in rayasposha etc.

Under this rule, the commentator instances only three cases, viz. râyas posham (e.g. i. 9. 4), parush paruh (e.g. i. 12. 3), and mâ piçâcam tiras karah (iv. 20.7): the latter has been already remarked upon, as not less entitled to be included in rnle 65 than some of the cases to which that rule relates. There are to be found in the text quite a number of other like cases, not provided for in any of the foregoing rules: they are as follows: divas putrâu (viii. 7.20) and divas payah (xix. 44. 5), already spoken of under rule 69; idas pade (vi. 63. 4), referred to under rule 72; adhamas padishta (viii. 4. 16: see R. Pr. iv. 20); dvishatas pâdayàmi (xi. 1. 12, 21); âpas putrâsah (xii. 3. 4) and mahas putrâsah (xviii. 1. 2), of which the latter is a Rik passage, and noted in its Praticakhya (iv. 21); rajos prthu (xiii. 2. 22: see R. Pr. iv. 19); and ciras krtam (xiii. 4. 40). In all these passages, the testimony of the manuscripts is unanimous in favor of the sibilant: in iv. 34. 8, a part of them (P.M. W. E) read dhenush kâmadughâ; and in more than one instance elsewhere, one or two manuscripts give a s or sh, instead of visarjaniya, before an initial p or k. Unfortunately, it is impossible to tell what is the teaching of the Prâtiçâkhya with regard to any such cases; we do not even know how accurately it or its commentators had noticed and noted the instances which their text contained. no apparent reason why the single cases noted in rules 66, 72, 77, 78, 79 should not have been left to go into the gana, if a gana was to be established, and neither the accuracy nor the method of the treatise, in dealing with this class of phenomena, is worthy of unqualified commendation.

The eightieth rule ends the section, of which the signature is: 80: dvitîyasya trtîyah pâdah.

म्रत्र नाम्युपधस्य षकारः ॥ ८१ ॥

81. In all these cases, s becomes sh, when preceded by an alterant vowel.

The commentator says: yad etat: samåse sakårah kapayor ananta ity anukråntah: atra nåmyupadhasya sakårusya shokåro bhavati: etäny evo 'dåharanàni: nåmyupadhasye 'ti drashtavyam: ita uttaram yud anukramishyàmah; 'the meaning is that, from the rule "in a compound" etc. [ii. 62] onward, in every case, a s preceded by an alterant vowel becomes sh: the illustrative instances are those already given:

the specification "when preceded by an alterant vowel" continues in force, as we go on farther from this point.' That is to say, the action of the present rule is retrospective as well as prospective, and extends to all the cases in which the conversion of visarjaniya to s takes place according to the rules of the preceding section, as also to the cases which are now farther to be specified; and that, whether the s to which the rules relate is original, or comes from visarjaniya by rule ii. 40 etc. The subject of this whole section is the nati of the dental sibilant, or ris conversion into the lingual, sh. The same phenomenon is treated in Rik Pr. v. 1-19, Vâj. Pr. iii. 55-82, and Tâitt. Pr. vi. 1-14. The grouping of the cases is so different in the different treatises that any detailed comparison of rule with rule is only occasionally and partially practicable.

सद्धेः साउ्भृतस्य ॥ ८५ ॥

82. Also in the root sah, when it takes the form sât.

The commentator cites, as cases coming under this rule, turâshât (ii. 5. 3), prâshât (not in AV.), prtanâshât (e.g. v. 14. 8). catrûshân nîshât (v. 20, 11), abhîshâd asmi viçvâshât (xii. 1. 54). As counter-example, to show that it is only when sah becomes sat that the change of sibilant takes place, he instances prasahanam, which is not found in our text. That sadbhûta means 'when it becomes sat,' and not 'when it becomes sah,' appears from the instances amitrasaha and satrasaha (see under iii. 23), in which, although the vowel of the root is lengthened, the sibilant remains unaltered. If ashadha occurred in any carlier book than the nineteenth (it is found only at xix. 7.4), the rule would have to be altered, or else sád in sádbhûtu would have to be understood as meaning both sâd (sât) and sâdh. There is no real necessity for any such rule as this, since all the words to which the commentary regards it as relating have precisely the same form in pada as in sanhitâ. But there is a graver objection to the rule than its dispensability: it is quite out of place where it stands. In the first place, it treats of an initial s, while the treatise otherwise puts off such cases until after all those of a final s are disposed of; and, much worse, it interrupts the anuvrtti of nâmyupadhasya, which must necessarily take place from rule 81 to those that follow; since, in the majority of the cases which it concerns, the sibilant is preceded by long â. Either there is here an unusual degree of awkwardness and inconsistency of method on the part of the author of the treatise, or the rule is an interpolation.

The later rules iii. I and iv. 70, which deal with the same irregularly formed words from different aspects, are to be compared.

तिक्षिते तकारादी ॥ ६३॥

83. Also before a taddhita-suffix beginning with t.

As instances, the commentator first gives sarpishtaram, yajushtaram, vapushtaram—not one of which words occurs in the Atharvan, while the first two are found as examples under the corresponding rule of

Pâṇini (viii. 3. 101)—and then vapushtamam (vapushtame, p. vapuh-tame, v. 5. 6: I have noted no other similar case in the text). As counter-example, to show the necessity of the restriction "before a taddhita-suffix," he cites agnis takmânam (v. 22. 1); to show that of "beginning with t," he gives sarpissât, yajussât, vapussât, which are not in the Atharvan, while the first of them, again, is an example under Pâṇini's rule just referred to.

The corresponding rule of the Rik Pr. is at v. 16 (r. 31, cccxlviii), and Taitt. Pr. vi. 5 includes one or two similar cases. Neither, however, gives a grammatical definition of the phenomenon, like that of our

treatise.

युष्मदादेशे तैस्वमादिवर्जम् ॥ ८४ ॥

84. Also before forms of the second personal pronoun, excepting in tais tvam etc.

Those forms used as "substitutes for yushmat," or as cases of the pronoun of the second person, before which the conversion of final s into sh takes place in the Atharvan, are tvam, tvâ, and te: the cases are enumerated below.* The commentator cites, as instances, five of them, viz. bahish te astu (i. 3. 1 etc.). rtubhish tvâ vayam (i. 35. 4), dyâush tvâ pitâ (ii. 28. 4), tâbhish tvam asmân (ix. 2. 25), and tâish te rohitoh (xiii. 1. 35). As examples from the gana of exceptions, he offers tâis tvam putram (iii. 23. 4), vadhris tvam (iv. 6. 8), and pavastâis tvâ (iv. 7. 6). This gana I have not thought it worth while to take the trouble to fill up, deeming it of more interest to give the complete list of the cases in which the change of the sibilant did, rather than of those in which it did not, take place. The former are, I believe, the more numerous of the two classes.

तत्तानग्रादिषु च ॥ ६५ ॥

85. Also before tat, tân agra, etc.

The forms of the third personal, or demonstrative, pronoun before which a final s, after an alterant vowel, is converted into sh, are tam, tat, and tân. The cases, which are not numerous, are detailed below.† The commentator cites four of them, viz. agnish ṭad dhotâ (e.g. vi. 71.1), agnish ṭân agre (ii. 34.3), vâyush ṭân agre (ii. 34.4), and nish ṭam bhaja

growing out of a confusion with the participle nashtebhih.

^{*} Before tvan: ix 2.25. xi.9. 6. Before tva: i.22.3; 35.4. ii.28.4. iii.29.8. v.28.5, 13. xiv.2.59-62. xviii.4.9. xix.27.1 (bis); 34.6; 37.4; 46.1. Before te: i.3.1-5. ii.13.4:29.6. iv.6.6. v.25.9; 28.5. vi.92.3; 111.2. vii.53.2; 74.3. viii.2.13. ix.4.10. x.9.2. xii.1.18. xiii.1.35. xiv.2.3. xviii.4.9.15. xx.133.2. At iii.10.10. all the sanhitā MSS., without exception, give rtubhyash tva, which was deemed however, nuch too anomalous and unsupported a reading to be received into the edited text.

[†] Before tam: iv. 22. 2. Before tat: i. 32. 2. vi. 71. 1, 2. vii. 53 3. x. 9. 26. xviii. 3. 55. xix. 59. 2. Before tan: ii. 34. 3, 4. xviii. 2. 28. There is a single case, moreover, in which all the sanhitâ MSS. read sh after a: viz. nash tebhih, ii. 35. 2; but this reading has been rejected in the edition, as an evident blunder, apparently

(iv. 22. 2). He also adds two examples of another class, viz. dushtano (p. dustano iti duh tano: iv. 7. 3), and nishtakvarîm (p. nih-takvarîm: v. 22. 6). The rule must be meant also to include gobhish tarema (vii. 50. 7). The word dushtara (vi. 4. 1) would seem to come properly under it, but its treatment by the pada-texts (it is written dustara, not duh-tara) indicates, I should think, that the Hindus regarded it as an irregular compound of duh and stara, from the root star (str); hence it would fall under the next rule, or else under rule 98.

स्तृतस्वस्विषषु ॥ ६६ ॥

86. Also before strta, sva, and the root svap.

But three cases occur under this rule, one for each of the words mentioned in it: they are anishtrtah (p. anih strtah: vii. 82. 3), nishva (p. nih: sva: vi. 121.1 and vii. 83.4), and the frequently occurring dushvapnyam (p. duh-svapnyam: e. g. vi. 46. 3), with which goes its derivative daushvapnyam (p. dauh-svapnyam: iv. 17.5). The commentator cites them all, excepting the last; the second of them he gives in its connection, thus: duritam nishva 'smat. All these words have in the edited text been written in a similar manner, with but a single sibilant, as I have here cited them, and as they are given by the commentary in our manuscript. This does not, however, appear to be the way in which the Praticakhya intends that they should be written, for it prescribes that the final visarjaniya or sibilant should be converted into sh before the initial s; not that there should be a dropping out of either sibilant. Yet the Prâtiçâkhya also is defective as regards its treatment of them; for, while it has directed above (ii. 16) that a dental mute (tavaryîya) be converted into a lingual after final sh in the preceding word, it has given no such rule respecting the dental sibilant. If we follow our treatise, then, implicitly, we shall write anishstrtah, nish sva, dushsvapnyam, which are barbarous and impossible forms. The manuscripts write, without dissent, anishtrtah and nishva; as regards dushvapnya, their usage is very irregular; they vary with the ntmost inconsistency between that form and duhshvapnya, in no single instance writing dushshvapnya. While, therefore, we are compelled to look upon anishshtrtah, nish shva, and dushshvapnyam as the forms which the Praticakhya intends to sanction, we cannot but hold the editors justified in following for the two former cases the unanimous anthority of the MSS., and in making the third conform to them. To dushtara reference has been made under the preceding rule, as a case akin with these, but differently treated, in that one of the two sibilants has been rejected: on account of this irregularity, donbtless, it is treated as an anomalous case by the pada-text, and left undivided.

The Vâj. Pr. (iii. 71) adopts and sanctions the form duhshvapnya: the Rik Pr. (v. 1, r. 1, cccxviii) requires, like our treatise, dushshvapnya, although the manuscripts, as noticed by Müller, usually read dushvapnya.

^{*} Except in the passage vi. 121. 1, where the edition, by a reprehensible inconsistency, reads nih shva.

नामिकरेफात्प्रत्ययसकारस्य ॥ ६७॥

87. Also the s of a suffix, after an alterant vowel, k, or r.

This rule, like the corresponding one in the Vaj. Pr. (iii. 57), is not precisely in place in a Pratiçakhya, which has nothing to do with the processes of derivation in connection with which its application must be made: hence the other two treatises present nothing analogous to it. The commentator illustrates it by citing phalaj jatah karishyati (x. 6. 2), iyakshamana bhrgubhih (iv. 14. 5), and havisha "harsham enam (iii. 11. 3). He explains ka in the rule by kavargat, 'after a guttural,' probably in view of the requirement of some authorities (see under ii. 6) that the k should become kh before the sibilant.

स्त्रैषूयम् ॥ ८८॥

88. Also that of strâishûya.

This word occurs but once in the text, in a passage cited by the commentator: $str \dot{a} ish \dot{u} yam \ any atra$ (vi. 11.3: p. $str \dot{a} ish \dot{u} yam$). Why, among the words mentioned in iv. 83, it should be singled out to be made thus the subject of a special rule, is not at all clear. The position of the rule, too, thrust in between the two closely related rules 87 and 89, and disturbing their connection, is in a high degree awkward, and calculated to inspire suspicions of an interpolation.

नलोपे जपि ॥ दश्॥

89. Even when a n has been lost.

This rule attaches itself immediately and closely to rule 87, from which it has been blunderingly separated by the intrusion of rule 88. It is intended to apply to such cases as yajūnshi, havinshi, where, by ii. 34, there has been a loss of n before the ending si, accompanied, by i. 67, with nasalization of the preceding vowel, when the ending itself is converted into shi after the alterant vowel, although the latter is nasal. Among the other treatises, the Vāj. Pr. (iii. 56) alone gives a similar precept. The illustrative citations of the commentator are the same which he has already twice before given, under i. 84 and ii. 34.

उपसर्गाद्वातोः ॥ १०॥

90. Also that of a root, after a preposition.

This is a very general precept, and the instances of its application in the text, in forms of conjugation and of derivation, are quite numerous. The commentator selects as illustrations but two: vrksham yad gâvah parishasvajânâ anusphuram (i. 2. 3: p. pari-sasvajânâh; anusphuram is an exception to the rule, akin with those detailed in rule 102, below), and vishitam te vastibilam (i. 3. 8: p. vi-sitam). As counter-examples, to show that it is only after a preposition that the initial s of a root is

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regularly converted into sh, the commentator fabricates a couple of eases, viz. dadhi siñcati, madhu siñcati; the former of them appears also among the counter-examples under the corresponding rule of Pāṇini (viii. 3. 65). The proper exceptions to the rule are detailed below, in rules 102-107.

The Tâitt. Pr. (vi. 4) has a general rule like this of our own treatise, for the change of an initial s after a preposition: the other two Prâtiçâkhyas rehearse the cases in detail (see R. Pr. v. 4-10; V. Pr. iii. 58-70).

ऋभ्यासाच ॥ ११॥

91. As also after a reduplication.

The commentator is more than usually liberal in his citations under this rule; he gives us sushûdata (i. 26. 4), abhi sishyade (v. 5. 9), â sushvayantî (v. 12. 6; 27. 8), sishûsavah sishûsatha (vi. 21. 3), tat sishûsatî (xiii. 2. 14), and sushuve (xiv. 1. 43). In all these cases, as in all others of the same kind which the text affords, the pada-text gives the dental sibilant unchanged; thus, susûdata, sisyade, etc.

This class of cases is not treated by itself in the other Prâticakhyas.

स्यासिक्सिचीनामकार्व्यवाये अपि ॥ १२ ॥

92. And that of the roots $sth\hat{a}$, sah, and sic, even when an a is interposed.

There is, owing to the imperfection of our manuscript, a slight doubt as to the precise reading of this rule, the copyist, as in one or two other cases which we have already had occasion to notice, having skipped a line of his original, or from one $k\hat{a}ra$ to another and later one, whereby we have lost part of the original statement of the rule and nearly the whole of its paraphrase; the final repetition of the rule before the one following being also slightly defective. I restore the mutilated passages eonjecturally as follows, noting within brackets the parts supposed to be omitted: $sth\hat{a}sahisic\hat{a}n\hat{a}m$ $ak\hat{a}ra[vyav\hat{a}ye$ 'pi: $sth\hat{a}sahisic\hat{a}n\hat{a}m$ $upasargasth\hat{a}n$ $nimitt\hat{a}d$ $ak\hat{a}ravyav\hat{a}ye$ 'pi $dh\hat{a}tusak\hat{a}ra]sya$ $shak\hat{a}ro$ bhavati: $sth\hat{a}sahisic\hat{a}n\hat{a}m$ $ak\hat{a}ravyav\hat{a}[ye]$ 'py $abhy\hat{a}savyav\hat{a}ye$ 'pi sthah.

Of the cases to which the rule relates, the commentator instances three; viz. abhy ashthâm viçvâh (x. 5. 36 and xvi. 9. 1), tena devâ vy ashahanta (iii. 10. 12), yenâ 'kshâ abhyashicyante (xiv. 1. 36). For the root sthâ the text affords us two other examples, adhy ashthât (x. 10. 13) and adhy ashthâm (xii. 1. 11). These are actually all the eases occurring in the Atharvan in which the three roots named in the rule are preceded by prepositions ending in alterant vowels, with interposition of the augment—except the anomalous form vy âsthan (xiii. 1. 5), where the irregular initial â is read in pada as well as in sanhitâ, and which does not come under the present rule, since there is an interposition of âkâra, not akâra.

Similar cases are noted by the other treatiscs (see V. Pr. iii. 64; T. Pr. vi. 3).

म्रभ्यासव्यवाये जपि स्थः॥१३॥

93. And that of the root sthat, even when the reduplication is interposed.

Two eases are cited by the commentator under this rule, viz. sapta sindhavo vitashthire (iv. 6.2), and bruhma pururupam vi tashthe (ix. 10. 19). In the latter passage, the edition gives erroneously vi tashthe: two of the manuscripts (W. and E.) read vi cashte; the others have, correctly, vi tashthe (or, by a carelessness very common in the codices, vi tashte: E., for instance, never distinguishes shth and sht from one another): the padu-text presents vi:tashthe. We have in two other passages (ix. 9.2. xiv. 2.9) adhi tashthuh (not tashthuh); this apparently constitutes an exception to the rule which has escaped the notice both of the treatise and of the commentator: possibly, however, the adhi is not in these passages regarded as standing in the relation of upasarga to the root sthh, since it does, in fact, belong rather, in a prepositional relation, to preceding ablative eases, than to the verbal form as its prefix: and this is the more clearly indicated by its retaining its independent accent before the accented verb.

परमेभ्यो जनापाके ॥ १४॥

94. As also after parama etc.; but not after âpâka.

The commentator's explanatory paraphrase is as follows: paramādibhyah pûrvapadebhyah anapake uttarapadasthasya sakarasya shakaro bhavati; 'after parama etc., as former members of a compound, excepting apake, the s of the second members of the compound becomes sh? This does not, in terms, restrict the rule to eases of the root sthâ in composition, implying an anuvrtti of sthah from the preceding rule: yet we can hardly doubt that it is properly to be so restricted, and the commentator himself gives examples only from the root stha: they are parameshthî (e. g. iv. 11.7: p. parame-sthî), bhuvaneshthâh (ii. 1.4: p. bhuvane-sthah), madhyameshthah (ii. 6. 4: p. madhyame-sthah), and ungeshthah (vi. 14.1: p. unge-sthah). The exception, as noted by him, is ôpâkesthâh prahâsinah (viii. 6. 14: p. âpâke-sthâh). These are all the words in which sthâ is compounded with a locative ending in e; and, considering the form of the rule, it is probable that only such compounds were intended to be included under it: if the other compounds in which the s of stha is lingualized (viz. rayishtha, rayishthana, girishtha, pathishtha, goshtha, and gavishthira—of which the last is read in pada as in sanhitâ, while the others are separated, with restoration of the dental sibilant) had also been aimed at, the exception bhûristhûtra (iv. 30. 2: p. bhûri-sthûtra) would likewise have required notice.

The form of statement of the gana, paramebhyah instead of parama-dibhyah, is quite peculiar.

म्रपमव्याभ्यां च ॥ १५॥

95. As also after apa and savya.

There is still anuvṛtti of sthah: the s of the root sthå becomes sh after apa and savya. The cases are separately noticed, because in them the change takes place irregularly after a, instead of after an alterant vowel. The commentator cites the two passages: apashthac chṛṇġāt (iv. 6.5: p. apāshthāt), and savyashthāc candramāh (viii. 8.23: p. savya-sthāh).

श्रग्नेः स्तोमसोमयोः ॥१६॥

96. Also that of stoma and soma after agni.

The commentator instances yavad agnishtomena (ix. 6. 40: p. agnistomena), and agnishomav adadhuh (viii. 9. 14: p. agnishomau). As was the case with the last rule, the two words to which the precept relates are of different character, the one necessarily requiring the rule, in order to determine its sanhita reading, while the other might have been safely left unnoticed by the Praticakhya. There is yet another case in the Atharvan text, which would seem to call for inclusion in this rule: it is agnishvattah (xviii. 3. 44: p. agni-svattah). We can hardly suppose that it was intentionally omitted here, to be included in the gana of rule 98, below: either it must have been overlooked by the maker of the treatise, or the verse which contains it (it is also a Rik verse; see RV. x. 15. 11) was not in his Atharva-Veda: that it was, however, contained in the text recognized by the commentator, is shown by the fact that he several times (under i. 80, 84 and ii. 34) cites the phrase atto havinshi, which forms part of its second line.

The commentator gives, as counter-example, abhi somo avivṛdhat (i. 29.3).

मुञः ॥ १७॥

97. Also that of su.

The commentary furnishes the following examples: idam û shu (i. 24. 4), tad û shu (v. 1. 5), mahîm û shu (vii. 6. 2), anya û shu (xviii. 1. 16), stusha u shu (xviii. 1. 37), and tyam û shu (vii. 85. 1). Other cases are: after û, v. 6. 4; after u (the same particle not lengthened), vii. 73. 7; after mo, v. 11. 7. xviii. 3. 62; after evo, vi. 84. 3; after o, vii. 72. 2; after vidmo, i. 2. 1. These are all the instances in which su follows in the Atharvan the particle u, or a word whose final is combined with the latter. On the other hand, in the only passage in the text (pṛthivî su: xviii. 3. 51) in which it follows an alterant vowel of another character, it remains unchanged. Our rule, then, is defective, and should have been restricted either by the specification of the alterant vowels to which the effect upon su is limited, or by a mention of the exception. The other treatises are less general, and hence, it may be presumed, more accurate, in their treatment of the change of this particle (see R. Pr. v. 2, 3; V. Pr. iii. 59, 60, 61; T. Pr. vi. 2).

त्र्यादिभ्यः ॥ १८॥

98. Also after tri etc.

Here is another of those convenient ganas, set as a catch-all for whatever cases may not have been otherwise provided for, and rendering it impossible for us to ascertain the precise degree of accuracy with which the authors of the treatise examined and excerpted their text. commentator cites three passages, ye trishaptâh (i. 1.1: p. tri-saptâh), goshedhâm (i. 18.4: p. go-sedhâm), and raghushyado 'dhi (iii. 7.1: p. raghu-syadah): he also, in his paraphrase, limits the application of the rule to cases of this character, in which an alterant vowel at the end of the first member of a compound comes before an initial s of the following Of such cases, besides those falling under rule 90, above, and those which are specially referred to in the rules preceding and following this, or which are mentioned in connection with them, I have noted in the Atharvan text the following: dhrshnushena (v. 20.9: p. dhṛshṇu-sena), sushṭuti (e.g. vi. 1.3: p. su-stuti), purushṭuta (vi. 2.3: p. puru-stuta), rshishtuta (vi. 108. 2: p. rshi-stuta), gabhishak (vii. 7. 1: p. gabhi-sak), prthushtuka (vii. 46. 1 : p. prthu-stuka), sushûman (vii. 46. 2: p. su-sûman), anushtup (e.g. viii. 9.14: p. anu-stup), trishtup (e.g. viii. 9. 14: p. tri-stup), traishtubha (ix. 10. 1: p. traistubha), trishandhi (e.g. xi. 9. 23: p. tri-sandhi), râtishac (e.g. xviii, 3. 20: p. râti-sâc), and divishtambha (xix. 32.7). Exceptions will be given below, under rule 103.

ऋकारात्रात्सदेः ॥ ११ ॥

99. Also that of the root sad, after a word ending in r.

The commentator instances hotrshadanam (vii. 99.1: p. hotr-sadanam), and pitrshadanah pitrshadane tva (xviii. 4.67: p. pitr-sadanah etc.). To these may be added pitrshad (xiv. 2.33: p. pitr-sad); and in narshada (iv. 19.2: p. narsada) is also implied nrshad.

बर्ह्मिष्यप्सुदिविपृषिवीति च ॥१००॥

100. As also after barhi, pathi, apsu, divi, and prthivi.

The instances are, as cited in the commentary, barhishadah pitarah (xviii. 1.51: p. barhi-sadah), pathishadî nrcakshasâ (xviii. 2.12: p. pathisadî iti pathi-sadî), apsushado 'py agnîn (xii. 2.4: p. apsu-sadah), ye devâ divishadah (x.9.12: p. divi-sadah), and prthivishadbhyah (xviii.

4. 78: p. prthivisat-bhyah).

We have reason to be surprised that the root sad is treated in this manner, being made the subject of these two separate rules. If the compounds into which it enters as final member are to be excepted from the general gana of rule 98, we should expect to find it directed that the s of sad should always be lingualized after an alterant vowel, as is actually the case. Not only is there, by the method adopted, a loss of that brevity which treatises of the sûtra class are wont to aim at almost as their chief object, but there is also a loss of completeness: the only remaining compound of sad of this class, sushad (e. g. ii. 36.4), is left out, to be provided for in the general gana. Or is it possible that su is regarded as falling under rule 90, as if a proper upasarga or preposi-

tion? If so, the forms into which it enters would be sufficiently provided for; since, excepting in the cases noted in the later rules (102 etc.), it always lingualizes the initial s of a root, while it has no effect upon that of a preposition or adverb, as in susaha (vi. 64. 3: p. su-saha) and the numerous compounds in which it is followed by sam, as susamrabdha.

किदिविभ्यामस्तेः ॥ १०१ ॥

101. Also that of the root as after hi and divi.

The commentator cites two of the cases falling under this rule, viz. âpo hi shịhâ (i. 5. 1), and ye devâ divi shiha (i. 30. 3): to which I add divi shan (xvii. 12 and xviii. 4. 59). The commentator then notes an exception which had escaped the authors of the treatise—prefacing it with tato 'pa vadati, 'from this rule is made the exception'—vimuco hi santi (vi. 112. 3): it is, in fact, the only case of the kind which the text affords—unless hi satyâh (i. 10. 1) is to be regarded as also falling under the rule, satya being an evident and acknowledged derivative from the root as.

Thus ends the Prâticâkhya's tale of the conversions of final or initial s into sh; what remains of the chapter is only a rehearsal in detail of exceptions to the rules already given. But there are still left in the Atharvan text a few instances of the same conversion, which can hardly be regarded as included in any of the preceding rules, since they are analogous with none of the other cases there treated of: unless something has been lost from this final section of the ehapter—of which there are no indications—the treatise-makers and their commentator must lie under the imputation of having been careless enough to overlook them. The passages referred to are as follows: âd u shtenam (iv. 3.4), tam u shtuhi (vi. 1.2), ni sha hîyatâm (viii. 4.10), and cid dhi shmå (xviii. 1.33). There would be little plausibility in a claim that the verses containing these passages were not included in the Atharva-Veda accepted by the school to which the treatise belonged, or that the readings of the school were different. And certainly, neither of these things could be maintained with regard to svarshah (v. 2.8: p. svah-sah), since the conversion of the final visarjaniya of its svah into r has already been made the subject of a special rule, while nevertheless the Prâtiçâkhya contains no precept directing us to read it otherwise than svarsah. The word would fall under the analogy of rule 87, but its final syllable could by no means be reckoned as a suffix (pratyaya).

न सृपिसृतिस्पृशिस्पूर्तिस्वर्तिस्मरतीनाम् ॥ १०५॥

102. The s of the roots sarp, sarj, sparç, sphûrj, svar, and smar is not changed into sh according to the preceding rules.

This is evidently a rule of kindred sphere with rule 106, below, and the two might well enough have been combined into one, which should teach that a root containing a r, either semivowel or vowel, was not liable to the changes prescribed in this section. The corresponding

rules in the other treatises have nearly this form (R. Pr. v. 11, r. 23, cccxl; V. Pr. iii. 81; T. Pr. vi. 8). As so stated, it would require the notice of but a single exception, vi shparat (vi. 56. 1 and x. 4. 8). As the rules now stand, they are slightly inexact, for in neither of them are included anusphuram (i. 2. 3), atisara (v. 8. 2 etc.), and pratisara (e. g. ii. 11. 2), although other forms of the root sar are contemplated in rule 106.

The commentator's illustrative examples are as follows: vi srpo virapçin (not in AV.; take instead parisarpati [v. 23.3]; there are an abundance of such cases in the actual text), atisrshto apám vrshabhah (xvi. 1.1), visprçah (perhaps a corrupted reading for uparisprçah [v. 3. 10], the only case our text contains), vâçyamânâ 'bhi sphûrjati (xii. 5. 20), vidathâ 'bhisvaranti (ix. 9. 22), nirrtho yaç ca nisvarah (xii. 2. 14), and prati smarethâm tujayadbhih (viii. 4. 7).

गोसन्यादीनां च ॥१०३॥

103. Nor that of gosani etc.

The instances which the commentator has chosen to give from this gana arc gosanim (iii. 20.10), vi sîmataḥ (iv. 1.1), abhi sishyade (v. 5: 9), and anu sûtum savitave (vi. 17.1-4). We cannot but be surprised that the first of these words was chosen to head the gana; it is no proper exception to any of the foregoing rules; the only one under which it would have any claim to come is rule 98, and there its simple exclusion from the gona to which alone the precept is calculated to apply would be sufficient warrant for its reading. The third instance is a fair exception to rule 90, besides being an instance under rule 91. The second and fourth arc, like the first, no legitimate cases for a rule like this, since vi and sîmatah, anu and sûtum, are disconnected words, which only accidentally come together in the arrangement of the scntence: if all such cases are to be taken note of, the gana will be considerably and unnecessarily extended. Of actual cases having claim to constitute together a gana of exceptions, the text does not furnish a great number: I have noted, besides the three words mentioned under the last rule, antisumne (vii. 112. 1), pratispâçanam (viii. 5. 11), visalyaka (e. g. ix. 8. 2), abhisatvâ (xix. 13. 5), and prâtisutvanam (xx. 129. 2: the reading is very doubtful). As good a right as gosani to inclusion in the gana have also bhûristhâtrâm (iv. 30. 2), and bahusûvarî (vii. 46. 2).

ग्रध्यभिभ्यां स्त्रन्देः ॥१०४॥

104. Nor that of the root skand, after adhi and abhi.

The cited instances are adhi skanda vîrayasva (v. 25.8), and abhi-skandam mrgî 'va (v. 14.11). As counter-instance, the commentator brings forward ekaçatam vishkandhani (iii. 9.6), which is a blunder—unless, indeed, the commentator's grammatical system derives skandha, 'shoulder,' from the root skand. An actual example of the kind he seeks to give is parishkanda (xv. 2.1 etc.).

परेः स्तृणातेः ॥ १०५ ॥

105. Nor that of the root star, after pari.

The commentator cites pari strnihi pari dhehi vedim (vii. 99. 1), and paristaranam id dhavih (ix. 6. 2). As counter-example, he can find only vishtari jatah (iv. 34. 1). Vishtarin doubtless comes from the root star; yet, as the pada-text does not analyze it, but writes it in its sanhita form, it might have been neglected, and the root star added to those rehearsed in rule 102, with which it evidently belongs.

रेफपरस्य च ॥ १०६॥

106. Nor one that is followed by r.

The examples offered in the commentary are sisratâm nârî (i. 11. 1), parisrutah kumbhah (iii. 12. 7), and pra bhânavah sisrate (xiii. 2. 46): the first and third are exceptions to rule 91, the second to rule 90. The text furnishes a number of other cases, which it is unnecessary to rehearse here, as there are no counter-exceptions.

ऋभि स्याम पृतन्यतः ॥१००॥

107. Nor in abhi syâma pṛtanyataḥ.

The passage, as cited by the commentator, is vayam abhi syâma pṛtan-yataḥ (vii. 93. 1*): as a quite peculiar case, it is properly enough made the subject of a special rule. To show the necessity of citing in the rule the following word, pṛtanyataḥ, the commentator brings forward viçvâḥ pṛtanâ abhi shyâma (xiii. 1. 22).

The signature of the chapter is as follows: 16: iti dvitiyo 'dhyayah samaptah. The number which should inform us how many rules are counted in the chapter is again unfortunately corrupt, and we are left to conjecture as to how it should be amended. I see no reason to suspect the loss of a rule or rules in the manuscript.

CHAPTER III.

Contents:—Section I. 1-25, lengthening of final and other vowels in sanhitá.

Section II. 26-28, doubling of consonants when final or in combination with other consonants; 29-32, exceptions; 33-36, vowels exempt from euphonic combination; 37, nasals do.; 38, method of combination of â between two vowels; 39, conversion of final vowels into semivowels; 40, do. of final diphthongs into vowel and semivowel; 41-52, fusion of final and initial vowels; 53-54, absorption of initial a after final e and o.

^{*} All the MSS. except W. read shyama, which has accordingly been received into the edited text.

SECTION III. 55-64, different kinds of svarita accent; 65-74, occurrence and modifications of the several accents in the combinations of the phrase.

SECTION IV. 75-85, conversion of the dental nasal n into the lingual n; 86-95, exceptions; 96, anomalous insertion of a sibilant in a single case.

सक्तवाउने दीर्घः ॥१॥

1. Before the root sah, when it ends in \hat{at} , the vowel is lengthened.

In this rule, âdanta has virtually the same meaning as sâdbhûta in rule ii. 82. It would not do to say "before sah when it becomes sâh," because of the words amitrasâha and abhimâtishâha, in which, though the vowel of the root is lengthened, the preceding final remains unchanged. The illustrative citations of the commentator are precisely those already given, under ii. 82, including the two words, example and counter-example, prâshât and prasahanam, which are not found in the Atharva-Veda.

This rule also belongs in the category of the supererogatory, since in none of the words to which it relates does the pada-text afford a different reading from that of the $sanhit\hat{a}$. There would be just as much reason, so far as we can see, for a rule prescribing the prolongation of the a in the root sah itself—and that, in fact, is what the Våj. Pr. (iii. 121) does, while it takes no notice of the change of the preceding vowel.

The Rik Pr. devotes three chapters (vii-ix) to the subject of the irregular prolongation of vowels. In the Våj. Pr., the same subject occupies the sixth section of the third chapter, and one rule in the seventh (iii. 95-128); in the Tâitt. Pr., the third chapter: the latter treatise inverts the form of statement adopted by the others, and details the cases in which a vowel which is long in sanhità must be shortened in pada. The method in which the different works combine and put forth the phenomena of prolongation is so different, and so little would be gained by any detailed comparison of their teachings, that I shall for the most part content myself with this general reference.

ऋष्ट पद्योगपत्तपर्णदंष्ट्रचक्रेषु ॥ २॥

2. Also is lengthened the a of ashta, before pada, yoga, paksha, parna, danshtra, and cakra.

Compounds of ashta with parna and danshtra are not to be found in the present Atharva-Veda, nor are we necessarily to conclude, from their being mentioned in the rule, that any such occurred in the text recognized by the makers of our treatise: it is more likely that they have here, as in some other cases, detailed all the instances of the prolongation which they had noticed, without being particular as to their source. The rule, moreover, is an unnecessary one, since the pada-text everywhere offers the same reading with the sanhitâ, as is expressly directed by a later rule (iv. 94).

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The citations of the commentary are ashtápadí caturakshî (v. 19.7), ashtápakshâm (ix. 3.21), ashtáyogáih (vi. 91.1), ashtáparnah, ashtádaishtram, ashtácakrá navadvárá (x. 2.31), and ashtácakram vartate (xi. 4.22).

व्यधावप्रत्यये ॥३॥

3. Also a vowel before the root vyadh, when it is without a suffix.

The commentator's instances are *çvâvit* (v. 13. 9), and *hṛdayâvidham* (viii. 6. 18); to these is to be added only *marmâvidham* (xi. 10. 26), which, under iv. 68, is also cited in the commentary. By the latter rule, the *pada* in all these cases reads precisely like the *sanhitâ*, without any division of the words, and without restoration of the short vowel. As counter-example, to show that, when the root takes a suffix, the vowel preceding it is not lengthened, we have a form of verbal inflection, *pravidhyanto nâma* (iii. 26. 4), brought forward.

उञ र्दमूघादिषु ॥४॥

4. The particle u is lengthened in $idam \hat{u}$ shu etc.

Of the passages in which u is thus made long, the commentator cites six, viz. $idam \ \hat{u} \ shu \ (i. 24. 4), \ tad \ \hat{u} \ shu \ (v. 1. 5), \ mahîm \ \hat{u} \ shu \ (vii. 6. 2), anya \ \hat{u} \ shu \ (xviii. 1. 16), stusha \ \hat{u} \ shu \ (xviii. 1. 37), and tyam \ \hat{u} \ shu \ (vii. 85. 1); the other cases afforded by the text are pary \ \hat{u} \ shu \ (v. 6. 4), and para \ \hat{u} \ te \ (xviii. 3. 7). Were it not for this last case, the rule of our treatise might have been constructed like that of the Vâj. Pr., which says (iii. 109) that <math>u$ before su is lengthened.

श्रोषधेरपञ्चपचाम् ॥५॥

5. Also the final vowel of oshadhi, except in the strong cases.

Those of the strong cases of oshadhi which the rule would except are, of course, only the nominative and accusative singular, since the others would, by the rules of declension, show a gunated or a lengthened vowel, or a semivowel, in its place. The commentator cites no actual passages in illustration of the rule, but merely catalogues the forms in which the long vowel would appear, viz. oshadhibhih (e. g. ii. 10. 2), oshadhibhyam (not found in AV.), oshadhibhyah (e. g. vi. 20. 2), oshadhinam (e. g. iii. 5. 1), and oshadhishu (e. g. i. 30. 3): as counter-example, he adds iyam ha mahyam tvam oshadhih (vii. 38. 5). The padatext, in all these cases, reads precisely like the sanhita.

Since the rule does not restrict itself to forms of declension, it is guilty of an oversight in taking no account of the compound oshadhija (x. 4. 23: p. oshadhi-ja) as a farther exception. In the only other compounds which the text affords—viz. oshadhisamcita (x. 5. 32: p. oshadhisamcita), and oshadhimant (xix. 17. 6; 18. 6)—the rule of the Prâ-

tiçâkhya is obscrved.

जीवन्तीमोषधीम् ॥ ६॥

6. And except in the phrase jîvantîm oshadhîm.

The commentator quotes the passage a little more fully, jivantim oshadhim aham (viii. 2. 6; 7. 6), and adds that the inclusion of the accompanying word in the rule is intended to limit the exception to this particular passage; citing, as counter-examples, imûm khanûmy oshadhim (iii. 18. 1), and oshadhim çepaharshanîm (iv. 4. 1).

साढ: ॥७॥

7. The vowel of sâdha is long.

The commentator cites for us the only passage in which this participle occurs, vâcâ sâdhah parastarâm (v. 30. 9). The rule is one of the most utterly superfluous presented by our treatise, which, of course, has nothing to do with the mode of formation of such words. Moreover, if it was inclined to do a work of supererogation as regards them, it should not have omitted to notice also rûdhvâ, rûdha, mûdha, gûdha, and other like forms which the text contains. Probably the reason why this particular one was noticed, and not the others, is that the regular form, according to the rules of the general grammar, is sodha. Pâṇini (vi. 3. 113) remarks the occurrence in specific cases of forms like sâdha. The compound ashâdha is found but once in the Atharvan, and that in the nineteenth book (xix. 7. 4).

बङ्गलं रात्रेः॥६॥

8. As to the final vowel of râtri, diversity of usage prevails.

This is rather a discreditable confession on the part of our treatise, whose business it is to settle authoritatively the reading of its school in all cases admitting of any doubt, that it does not feel equal to dealing with the irregularities of the word in question. Nothing like it has hitherto met us, but we shall find several instances in that which follows. It is also a very unnecessary acknowledgment; for, in the first place, there was no such rule as this absolutely called for, since the pada-text everywhere reads all the forms of râtri like the sanhitâ; and, in the nominative we always meet with râtrî, except in a single case (xiii. 4. 30), where râtris occurs; as accusative, only râtrim is found, and râtrîm, which the Rig-Veda has (e. g. i. 35. 1), is never read; as vocative, we have only râtri, never râtre; and the other forms are, with the exception of râtraye (viii. 2. 20), such as would come from the theme râtrî.

The commentator, as under rule 5, gives the series of cases râtrîbhih (xviii. 1.10), râtrîbhyâm, râtrîbhyah, râtrînâm (e. g. iv. 5.4), and râtrîshu, only two of which are to be found in our text. As example of the short vowel, again, he cites an actual case, vrâtya ekâm râtrim (xv. 13.1).

विश्वस्य नर्वमुमित्रेषु ॥१॥

9. Also as to that of viçva, before nara, vasu, and mitra.

Here are unite heterogeneous cases, mixed together in one rule. The noun vicvânara and its derivative vâicvânara always show the long vowel, and moreover are read in pada precisely as in sanhitâ. vasu the pada-text divides, restoring the short vowel: thus, viçva-vasu; but the long vowel invariably appears in sanhitâ. We also find viçvâmitra three times in the text (iv. 29.5. xviii. 3.15, 16), and it is each time written vicvâmitra, without division, by the pada-text. But in a half-verse which occurs twice in the eighteenth book (xviii. 3.63; 4.54), we meet with vicvamitrah, which the pada divides, vicva-mitrah.* It is only, then, in regard to this last word that we need in our rule the implication of bahulam by inference from the one preceding, and it is so very difficult to justify the implication, with no ca in the rule to indicate it, and with nothing in any following rule to denote its cessation, that I am inclined to think that the passage containing vicamitrah was overlooked by the anthors of the treatise, or did not occur in the text they recognized, and that the interpretation of the rule has been modified by the commentator in order to bring it in.

The commentator cites, as instances of the long vowel, viçvânare akramata (iv. 11. 7), yâ viçvâvasum (ii. 2. 4), and viçvâmitra jamadagne (xviii. 3. 16); as example of the short vowel, tam arcata viçvamitrâḥ (xviii. 3. 63; 4. 54).

श्रुनः पदे ॥१०॥

10. Also as to that of cvan before pada.

The commentator cites all the instances of occurrence of the compound of these two words which the text contains, three of them as examples of the long vowel, and one of the short; they are as follows: atho sarvam çvâpadam (xi. 9. 10), çvâpado makshikâh (xi. 10. 8), and uta vâ çvâpadah (xviii. 3. 55); and, on the other hand, vyâghrah çvapadâm iva (viii. 5.11 and xix. 39.4). All these forms admit of being derived from a theme cvapad, instead of cvapada, and the last of them must necessarily come from cvapad. It would be possible, then, to get rid of the necessity of implying an anuvrtti of bahulam in this rule. as the commentator does, by regarding it as relating only to the cases in which cvan precedes pada, and not to that in which it precedes pad. There is the same strong objection to the inference of bahulam here as in the preceding rule: that nothing in the rule indicates it, and that the next one implies not bahulam, but simply dîrghah, without anything to point ont the cessation of the former and the resumption of the latter. Such ambiguity is quite foreign to the usual method of the treatise.

The pada-text reads, in each of the passages cited, precisely like the sanhitâ, without division of the compound, so that the rule might be omitted altogether without practical loss.

^{*} The first time, all the manuscripts, without exception, accent viçvâmitrâh, and the edition follows their authority: in the repetition of the verse, Bp. and M. and the edited text have viçvamitrâh, B. and P. viçvâmitrâh; this part of the eighteenth book has been lost in E., and is unaccented in I. The word is evidently a vocative, and the true reading is viçvamitrâh, without accent, in both passages.

उपसर्गस्य नामिनो दस्ति ॥११॥

11. A final alterant vowel of a preposition is lengthened before t of the root $d\hat{a}$.

The only two words in the text falling under this rule are apratitam (vi. 117. 1) and parittah (vi. 92. 2), in which the final i of prati and pari becomes i before the t which is all that remains of the root da before the participial suffix ta. The commentator mentions both, and likewise nitta, vitta, and parittih, no one of which is to be found in the Atharvan; nor are his counter-examples, prattam and avattam, Atharvan words. The rule has a more general form of statement than would be required if it were constructed only to fit the cases which our text presents: and we may also, indeed, recognize in the fact of its presence at all the influence of the general grammar: the words to which it relates are read alike in pada and in sanhita, and none of the other treatises has anything corresponding to it: compare Panini, vi. 3. 124.

वर्तादिषु ॥१५॥

12. As also before varta etc.

What words we are to assume to be implied in this rule, by inference from those which precede it, is not entirely clear. The commentator's understanding of it we are unable to arrive at, for there is here another slight lacuna in the manuscript: the copyist has jumped carelessly from the vartadishu of the first statement of the rule to that of the paraphrase, so that the greater part of the latter is lost. The instances given in the commentary are abhivartena (i. 29.1: p. abhi-vartena), and viçvam anyâm abhîvâra (i. 32. 4: p. abhi-vâra). We may with plausibility conclude from this that we are to imply in the rule not merely the dîrghah, 'conversion into a long vowel,' which belongs to the whole section, but the specific limitation to a preposition ending in an alterant vowel, given in the last rule; and that the commentary would read, if restored, as follows: vartādishu [: upasargasya nāmyantasya vartādishu] paratah dirgho bhavati. The words, then, to which the rule relates. would be, besides those already cited: vîbarha (ii. 33.7: p. vi-barha), abhîvarga (e. g. iii. 5. 2: p. abhi-varga), parîçâsa (v. 14. 3: p. pari-çâsa), pratibodha (e. g. viii. 1. 13: p. prati-bodha), prativarta (e. g. viii. 5. 4: p. prati-varta), anûvrj (ix. 4. 12: p. anu-vrj), pratîkâça (ix. 8.6: p. prati--kaça), abhîvrta (e. g. ix. 10. 7: p. abhi-vrta), parîvrta (e. g. x. 8. 31: p. pari-vṛta), samparîvṛta (x. 2. 33 : p. sam-parivṛta), pratîhāra (xi. 7. 12 : p. prati-hâra), nîvid (xi. 7.19: p. ni-vid), abhîmodamud (e. g. xi. 7.26: p. abhimoda-mud), abhîlâpalap (xi. 8. 25: p. abhilâpa-lap), anûrâdha (xix. 15. 2), parînah (xix. 48. 1), and nînâha (xix. 57. 4)—all which are separated by the pada-text (except in the nincteenth book, which has no pada-text), with restoration of the original short vowel of the preposition. In the same category would belong anujahire (p. anu-jahire), which is the reading of all the Atharvan manuscripts at xviii. 3. 46, but which in the published text is altered to anûhire, to accord with the Rik reading of the same passage (x. 15. 8), for which the other seems a

blundering substitution. In a single word, nihâra (e. g. vi. 113. 2), the pada does not restore the theoretically correct form, but reads with the sanhità: possibly ninâha, were there a pada-text for the passage, would be treated in the same way. There are a few cases where a final a of a preposition is also lengthened before a root, but in these the pada-text attempts no restoration of the regular form, and their omission from the rules of the Prâtiçâkhya would therefore be of no practical importance: they are prânâha (ix. 3. 4), prâvṛsh (e. g. xii. 1. 46), prâvṛta (e. g. xii. 5. 2); and upânah (xx. 133. 4) doubtless belongs to the same class.

There are, however, still remaining a few compounds in the Atharvan text, the final vowel of the first member of which is lengthened in sanhità, and which are not treated of in any of the rules which follow; so that, if the rule now in hand is to be so interpreted as to exclude them, no provision would appear to have been made for them in our treatise; they are samdhanājit (e. g. v. 20. 3: p. samdhanā-jit), ukthā-mada (v. 26. 3: p. uktha-mada), tardāpati (vi. 50. 3: p. tarda-pati), sahasrāposha (e. g. vi. 79. 3: p. sahasra-posha; at vi. 141. 3 we have sahasraposha), āhutivṛdh (vii. 32. 1: p. āhuti-vṛdh), svāvasum (vii. 50. 3: p. sva-vasum: RV. reads in the corresponding passage svavasam), naghā-risha (e. g. viii. 2. 6: p. nagha-risha), pavīnasa (viii. 6. 21: p. pavi-nasa), purītat (e. g. ix. 7. 11: p. puri-tat), vishūvṛt (x. 2. 11: p. vishu-vṛt), purūvṛt (x. 2. 11: p. puru-vṛt), purūvasu (xiv. 2. 47: p. puru-vasu), and urūnasa (xviii. 2. 13: p. uru-nasa).

म्रकारस्याभ्यासस्य बङ्गलम् ॥ १३ ॥

13. The a of a reduplication is or is not lengthened.

As instances of the prolongation of a in a syllable of reduplication, the commentator gives us dâdhrshuh (i. 27.3: p. dadhrshuh), abhivâvrdhe (i. 29.1: p. abhi-vavrdhe), vâvrdhete (v. 1.5: p. vavrdhete), and jîtasya vâvrtuh (v. 19.13: p. vavrtuh). The same prolongation takes place in the Atharvan in sâsahe (xix. 34.5) and sâsahânah (iii. 6.4), câklpat (vi. 35.3), câklpuh (ix. 10.19), and câklpe (e. g. vii. 87.1), and tâtrshuh (xviii. 3.47); and also, in the twentieth book (xx. 127.3), in mâmahe. As examples of the short a in the same position, the commentator cites anena viçvâ sasahe (i. 16.3) and sasahe çatrûn (ii. 5.3). The root sah is the only one in which, while the pada-text gives always the short vowel to the reduplication, the sanhitâ sometimes prolongs it and sometimes leaves ît unchanged. Elsewhere we have in sanhitâ either always the long â (and especially often in the forms of vâvrdh), or always the short a.

There are also two or three roots in the reduplications of which other vowels than a, short in the pada-text, are lengthened in sanhitâ: they are rûrupah (iv. 7.5), rîrishah (e. g. v. 3.8), and cûcucah (xviii. 2.4). The Prâticâkhya may intend to include these forms in the gana of rule 21, below, but they would much more properly have been provided for in the present rule.

जीकीउाक्म् ॥ १४॥

14. Note jîhîdâ 'ham.

Or, as the commentator expounds it, there is in this passage a length-ened vowel—viz., that of the first syllable of jihida. The passage is cited: $akratur\ jihida$ 'ham* (iv. 32.5: p. jihida). The commentator regards the word bahulam as still in force from the preceding rule, and adds, as an instance in which a short vowel appears in the reduplication of this root, yad va pita 'paraddho jihida (vi. 116.2). But it is evident that there is no need here of any implication of bahulam, and that all cases but one of the occurrence of jihida are excluded from the rule by the citation in the latter of the accompanying word aham.

Compare farther rule iv. 87, which teaches samapatti of jihida in the

pada-text.

साद्माम ॥ १५ ॥

15. And sâhyâma.

The commentator quotes from the text: sâhyâma dâsam âryam (iv. 32.1: p. sahyâma). He does not attempt to prove the implication of bahulam by anuvrtti from rule 13, although there is just as good reason for doing it here as under the preceding rule. Compare the converse of this rule in the next chapter (iv. 88).

There are in the Atharvan text a few causative forms from verbal roots which show in the first or radical syllable a short a in pada and a long à in sanhità, and which are not specially noted in this section, being left, apparently, to fall into the gana of rule 21, below, although no reference is there made to them by the commentator. They are yâvaya etc. (e. g. i. 20. 3), from yu; cyâvayati etc. (e. g. x. 1. 13), from cyu; vânayantu (vi. 9. 3), from van; yâmaya (vi. 137. 3), from yam; and glâpayanta (ix. 9. 10), from glâ. Directions for the shortening of their first syllables in pada are given in the next chapter (iv. 91-93).

विद्मादीनां शरादिषु ॥१६॥

16. The final vowels of *vidma* etc. are lengthened before *çara* etc.

This rule, together with two later ones of this section (19 and 25)—of which the one relates to the final of an instrumental case, and the other to that of the particle adha—makes up the sum of all that our treatise has to say respecting the frequent and important phenomenon of the prolongation in sanhità of a final vowel. The other Pratiçakhyas treat the subject at great length and apparently with exhaustive fullness (see R. Pr., chapters vii and viii; V. Pr. iii. 96-128; T. Pr. iii). As regards our own treatise, we must confess that we can hardly help questioning the actuality of all its ganas, when we find set up in the rules such as would have to be of so immense extent as the two here presented us, which must contain hundreds of words each.† It were

† The longest gana belonging to Pânini's grammar, ardharcadayah, contains, in

Böhtlingk's edition, 232 words.

^{*} The edition reads erroneously jihida'ham, with the corresponding Rik passage. All the sanhita manuscripts of the Atharvan give jihida, and in the pada-text the word is followed by a figure 4, the usual sign of a samapanna word, or one which the pada has reduced from an irregular to a theoretically regular form.

almost as well, we should think, to turn off the nuatter with a kvacit, as is done below, in rule 54, openly confessing inability to master its intri-

cacy and vastness, as to dispose of it thus.

The commentator does not feel called upon to give himself any more trouble than the authors of the treatise have taken, and he leaves the two ganas to take care of themselves, after citing three passages by way of examples, as follows: vidma garasya pitaram (i. 2. 1), eva rogam ca "sravam (i. 2. 4), and eva me prana ma bibbeh (ii. 15. 1 etc.). In filling out the gana, and giving a complete account of the usage of the Atharvan text with reference to the prolongation of a final vowel, I shall put together all the cases, including those which belong under rules 19 and 25, since the same principle evidently governs them all.

The prolongation is so prevailingly a metrical phenomenon in the Atharva-Veda, called out by the exigencies of the verse, that I shall arrange my exhibition of it accordingly. There are certain points in the $p\hat{a}da$, whether of eight, of eleven, or of twelve syllables, at which the long vowel is especially liable to be called forth: these are, 1st, toward the beginning of the $p\hat{a}da$, of whatever length, the second syllable; 2nd, toward the end, the sixth syllable in a $p\hat{a}da$ of eight syllables, and the eighth or the tenth in one of eleven or twelve syllables: the protraction evidently tending in the former case to give an iambic movement to the commencement of the verse, and, in the latter case, to impress upon it an iambic cadence—which, however, is in the 11-syllable $p\hat{a}da$ made trochaic by the addition of an odd syllable. A long syllable at these points, then, I shall regard as regular; elsewhere, as irregular.

I. The påda of eight syllables (rarely lengthened to ten), usually forming anushtubh verses, but, less often, combined into gåyatrî, pankti, or brhati stanzas: these do not require to be distinguished from one another, since the prolongation depends solely upon the interior construction of the påda itself, and not upon the mode of combination of

the latter.

1. Protraction of a final vowel in the second syllable of the pada, as in the example vidma çarasya pitaram (i. 2. 1):

a. Of verbal forms: vidmâ (i. 2.1; 3.1-5), pibâ (ii. 5.1), and tishthâ

(iv. 7. 5).

b. Of forms of declension: tenå (i. 3. 1-5. iii. 7. 3;* 14. 1. iv. 5. 1; 7. 1. vi. 7. 1, 2, 3; 12. 1, 2; 24. 3; 80. 1, 3; 82. 3; 91. 1. vii. 38. 2. xviii. 2. 30), and yenå (i. 13. 1. iii. 9. 4. vii. 38. 2. ix. 5. 17. xiii. 2. 21).

- c. Of particles: evá (i. 2. 4; 3. 6-9; 11. 6. ii. 15. 1-6; 30. 1; 36. 4. iii. 6. 3, 6. v. 21. 4-6. vi. 8. 1, 2, 3; 17. 1-4; 46. 3; 58. 2; 70. 1-3; 85. 3; 102. 1; 105. 1-3; 138. 5; 139. 4, 5; 141. 3. vii. 13. 1; 50. 5. ix. 1. 11, 12, 13, 16, 17. x. 1. 13; 3. 13-15, 17-25; 6. 33. xi. 4. 19. xii. 4. 34; 5. 65. xiv. 1. 43. xviii. 4. 55. xix. 50. 4; 57. 1), adhå (i. 28. 4. iii. 20. 1. vi. 65. 1. x. 4. 25. xiii. 1. 30. xiv. 2. 20. xviii. 2. 23), yatrå (iii. 28. 6), and ghå (vi. 1. 3).
- 2. Protraction in the sixth syllable, or the third from the end of the pâda, as in imam vardhayatâ girah:

a. Of verbal forms: vardhayatâ (i. 15. 2. xix. 1. 1, 2), janayathâ (i. 5.

^{*} The edition, following the authority of a part of the MSS., tena.

3), ilayatâ (i. 17. 4), yâvayâ (i. 20. 3; 21. 4. iv. 19. 7. xii. 1. 32), gamayâ (i. 21. 2), nâçayâ (i. 23. 2, 3), kṛṇutâ (iii. 9. 1. xii. 2. 34), anadatâ (iii. 13. 1), jayatâ (iii. 19. 7), vardhayâ (iii. 20. 1. vi. 5. 3; 54. 1), tânayâ (iv. 4. 6. vi. 101. 2), shvâpayâ (iv. 5. 7), kalpayâ (iv. 12. 5), nayathâ (iv. 13. 1), jîvayathâ (iv. 13. 1), châpayâ (iv. 18. 4), dûshayatâ (vi. 100. 2), dyâ (vi. 103. 2, 3; 104. 2), cakṛmâ (vi. 114. 1; 115. 1. x. 3. 8), mâdayâ (vi. 130. 4), shyâ (vii. 18. 1), bhavatâ (vii. 60. 7), jaghnimâ (x. 4. 12), bhajâ (xiv. 1. 25), vâpayâ (xviii. 3. 6), carâ (xx. 127. 11).

b. Of forms of declension: sahasyenâ (iv. 5. 1), and bhadrenâ (vii.

60. 7).

c. Of particles: ivá (vi. 37.2).

3. Besides cases of the two kinds already noted, we have a few in which the protraction still favors the iambic movement of the verse, although not at its two cardinal points:

a. In the fourth syllable of the pâda, as in harinasyâ bhiyam kṛdhi: of verbal forms, parshâ (iv. 33. 8), and cṛṇnotâ (xx. 127. 7); of forms of declension, dhâmâ (vi. 31. 3), and harinasyâ (vi. 67. 3); of particles,

angå (ii. 3. 2), and achå (iii. 20. 2).

b. In the final syllable of the pâda: of this class we have but two cases, viz. kalpayâ (iv. 12. 5), and angâ (ii. 3. 2); and in each passage the same word occurs in another position, protracted according to the usual analogies, so that we may regard the irregular protractions in the final syllable as the effect of attraction.

4. Protraction of a final vowel in such a position that it seems to ob-

struct, rather than assist, the regular movement of the verse:

a. Protraction in the third syllable of the pâda, as in crathayâ sû-shane tvam: of verbal forms, crathayâ (i. 11. 3), mrdayâ (i. 13. 2; 26. 4), itâ (iii. 19. 7), sunotâ (vi. 2. 3), juhotâ (xviii. 2. 2); of particles, smâ (x. 4. 6).

b. Protraction in the fifth syllable, or in the fourth from the end:

only a single case, iva (iv. 4. 7, third pada).*

A summary view of the cases of protraction in the 8-syllable $p\hat{a}da$ (including also the very rare 10-syllable $p\hat{a}da$) is as follows:

	Regular.	Indifferent.	Irregular.
Syllable,	2nd. 6th.	4th. 8th.	3rd. 5th.
Verbal forms,	8 40	2 1	6 0
Forms of declension,	26 2	2 0	0 1
Particles,	77 1	2 1	1 0
Sum,	111 43	6 2	$\overline{7}$ $\overline{1}$
Total,	154	8	8

II. In the páda of eleven syllables, with trochaic close; usually forming regular trishtubh verses, but not unfrequently irregularly combined, especially with jagati pádas, of twelve syllables:

1. Protraction at the commencement of the påda, in the second syllable: e. g. vidmå tam utsam yata åbabhûtha.

a. Verbal forms: vidmâ (iv. 31. 5. x. 1. 20. xiii. 3. 21), yukshvâ (xviii.

^{*} The edition reads, with a part of the MSS., iva.

1. 25), vahá (xviii. 1. 30), mṛḍâ (xviii. 1. 40), âcyā (xviii. 1. 52), bhavá (xix. 24. 5), and crudhî (ii. 5. 4. xviii. 1. 25).

b. Forms of declension: tena (iii. 16. 5. vii. 20. 4; 79. 1), yena (vii.

12. 1. xviii. 1. 54; 4. 44), and kshâmâ (xviii. 3. 21).

- c. Particles: evá (iv. 39. 1, 3, 5, 7. vi. 72. 1; 74. 3. xii. 2. 25), adhâ (iii. 4. 4. iv. 32. 7. v. 22. 2, 2. vii. 73. 11. viii. 4. 15. x. 2. 7. xii. 3. 2, 9. xviii. 1. 16, 51; 2. 11; 3. 21; 4. 48, 70), yatrâ (iii. 28. 5. vi. 22. 2; 120. 3. ix. 9. 22. xviii. 1. 50), atrâ (v. 1. 5. ix. 10. 12. xii. 2. 26, 27), adyâ (viii. 4. 15. ix. 10. 9), ghâ (xviii. 1. 11), achâ (vi. 39. 2), and smâ (xii. 3. 3).
- 2. Protraction in the cadence of the pâda. Here we have two classes of cases to distinguish, viz., those in which the eighth syllable, or the fourth from the end, suffers protraction, as in divam gacha pratitishthâ carîrâih; and again, those in which the tenth syllable, or the last but one, is made long, as in mâ vah susroc camaso drûhatâ tam.

a. Protraction in the eighth syllable.

a. Verbal forms: viveçã (i. 12. 3. xi. 4. 20), tishthâ (ii. 34. 5. xviii. 2. 7), bhajâ (iii. 4. 2, 4), avâ (iii. 16. 3), medayathâ (iv. 21. 6), bharâ (iv. 32. 3), svadayâ (v. 12. 2), srjâ (v. 27. 11), juhutâ (vi. 32. 1), rakshâ (viii. 3. 19), nahyâ (x. 9. 1), taratâ (xii. 2. 26, 27), nudatâ (xii. 2. 30), pacatâ (xii. 3. 27), bhavatâ (xii. 3. 29), srjatâ (xii. 3. 46), cakrmâ (xviii. 1. 51), dîyâ (xix. 13. 8), and avatâ (xix. 13. 11).

b. Forms of declension: asyâ (i. 12. 2), janimâ (ii. 28. 2. iv. 1. 3. xviii. 3. 22), amṛtenâ (iii. 12. 8), kâvyenâ (v. 1. 5), and martyenâ (ix. 10.

8, 16).

c. Particles: câ (vii. 4.1. x. 8.12), adyâ (vii. 82.6), and utâ (vii. 97.1).

β. Protraction in the tenth syllable. This case is comparatively rare, and is nearly confined to verbal forms, of which we have mr datâ (i. 20.
1. xviii. 3. 16), bhavâ (ii. 6. 3. iv. 32. 7), srjâ (v. 2. 3), hantanâ (vii. 77.
2), and drnhatâ (xix. 58. 4): besides these, we find only ihâ (xix. 56. 6).

3. In the trishlubh påda, as in the anushtubh, we have in a few odd cases the fourth syllable lengthened, as in tirah purû cid arnavam jaganvân; they are as follows: verbal form, tishlhatâ (xii. 2.27); form of declension, purû (xviii. 1.1); particle, ghâ (xviii. 1.3).

4. The irregular protractions are found to take place in the third, the

fifth, or the seventh syllable of the pâda.

a. Protraction in the third syllable, as in urushya na urujmann aprayuchan: but two cases occur, viz. urushya (vi. 4. 3), and vyathaya (xiii. 1. 31), and in the latter passage the metre is hopelessly irregular.

b. Protraction in the fifth syllable, as in mitrac cid dhi shmå juhu-råno devån: of this class, we have only cases of particles, viz. prå (ii.

5. 5. vii. 26. 1*), and shma (xviii. 1. 33).

c. Protraction in the seventh syllable: an example is na yat purâ cakṛmâ kad dha nûnam. The words of which the final is lengthened in this position are, with a single exception, verbal forms, viz. kṛnuthâ (iv. 21. 6), bharâ (iv. 22. 6. vii. 73. 9), khidâ (iv. 22. 7), cṛtâ (vi. 63. 2; 84. 3), suvâ (vii. 14. 3), nudâ (vii. 34. 1), and cakṛmâ (xviii. 1. 4, 33). Of forms of declension, we have janimâ (v. 11. 5).

^{*} In both these passages the printed text reads pra, without any support from the manuscripts.

The tabular summary for the 11-syllable pada is as follows:

	Regular.	Indifferent.	Irregular.	
Syllable,	2nd. 8th. 10th.	4th.	3rd. 5th. 7th.	
Verbal forms,	10 23 7	1	2 0 10	
Forms of declension,	7 8 0	1	0 0 1	
Particles,	36 4 1	1	0 3 0	
Sum,	53 35 8	3	$\overline{2}$ $\overline{3}$ $\overline{11}$	
Total,	96	3	16	

III. In the jagati pada, or that of twelve syllables.

1. Protraction at the beginning of the påda, in the second syllable, as in cikshå no asmin puruhûta yamani. Here we have, of verbal forms, cikshå (xviii. 3.67); of forms of declension, purû (vi. 49.3); of particles, evâ (iv. 23. 2. vi. 97.1), adhâ (vii. 83. 3. xviii. 4.63), and yadî (xviii. 1.21).

2. Protraction in the cadence of the pâda, taking place, as in the trishtubh pâda, at two different points, either at the eighth syllable or

at the tenth; that is, at the fifth or the third from the end.

a. At the eighth syllable, as in asmākam ançam ud avā bhare-bhares of such cases, the text affords us the verbal forms muñcâ (ii. 35.3), kṛṇutâ (vi. 55.3), ruhemâ (vii. 6.3), avā (vii. 50.4), and ichâ (xviii. 1.16); and the form of declension dharmâ (vi. 51.3).

3. At the tenth syllable, as in tah saptagrdhrá iti çuçruma vayam: here we have only the verbal forms sincatha (vi. 22. 2), dharaya (vii. 82. 3), çuçruma (viii. 9. 18), veçaya (ix. 2. 25), and sidata (xi. 1. 12).

3. Of the protraction in the middle of the verse, or at the fourth syllable, there is to be found but a single case, yad ejathû maruto rukma-

vakshasah (vi. 22. 2).

4. Protraction of a final against the requirements of the metre, in the seventh syllable, or the sixth from the end. Only one unquestionable case can be found, viz. pary û shu pra dhanvû vâjasûtayê (v. 6. 4); with which may be classed grnatû, at v. 27. 9, in a verse of irregular character, and perhaps rather belonging under the 8-syllable pâda.

The cases of the 12-syllable pâda may be thus summed up:

	1	Legula	r.	Indifferent.	Irregular.
Syllable,	2nd.	8tb.	10tb.	4th.	7th.
Verbal forms,	1	5	5	1	2
Forms of declension,	1	1	0	0	0
Particles,	5	0	0	0	0
Sum,	7	6	5	1	2
Total,	_	18		1	2

There thus appear to be, in the whole text, 268 cases of the protraction of a final vowel to help the metrical movement in the opening or the cadence of the pâda, and 12 which favor the movement in the middle of the pâda, against 26 which contravene the orderly flow of the metre. To point out the cases in which protraction does not take place at the two important points at which it is thus shown usually to occur, and to establish the laws, if there be any, which determine in each instance the retention or the change of the short vowel, cannot, of course, be attempted here.

It will be noticed that the vowel which is lengthened is almost always a: the text furnishes us, indeed, but three examples of the protraction of a final i (ii. 5. 4. xviii. 1. 21, 25), and two of that of u (vi. 49. 3. xviii. 1. 1)—except the particle u, as taught in rule 4 of this chapter.

बङ्गलं मतौ ॥१७॥

17. Before the suffix mant a vowel is or is not lengthened.

The term matu is treated by the commentary as covering both the snffix mant and its equivalent vant: in fact, he cites instances only for the latter, as follows: câle calculated (iii. 12. 2), acvâvatîr gomatîh (iii. 16. 7), and acvâvatîm pra tara (xviii. 2. 31); and farther, as examples of the short vowel before the suffix, vîravatîh sadam (iii. 16. 7), and ghṛta-

vatî payasvaty uc chrayasva (iii. 12. 2).

The complete list of words in our present Atharvan text which exhibit in sanhità a prolongation of the final vowel of a theme before the possessive suffix vant is as follows: açvâvant (e. g. iii. 12. 2), varanâvant (iv. 7.1), madâvant (e.g. iv. 7.4), samâvant (iv. 18.1), priyâvant (iv. 18.4), uttarâvant (e. g. iv. 22.5), vîryâvant (e. g. iv. 37.5), vrshnyâvant (v. 25. 8), bhanguravant (vii. 71. 1), açitavant (ix. 6. 38), rocanavant (xiii. 3. 10), ishtavant (xviii. 3. 20), kladîvant (vii. 90. 3), and vishûvant (ix. 3. 8). In all these words, the pada-text restores the final vowel of the theme to its short form, and (by iv. 17) separates the theme and the suffix by avagraha.* For the suffix mant we have but a single word, tvishimant (e. g. iv. 19. 2: p. tvishi-mant): and so also for the suffix van -viz. satyâvan (p. satya-van: iv. 29. 1, 2)-respecting which I do not know whether it should be regarded as included under the technical designation matu. There are a few words in which the long vowel before the possessive suffix is properly regarded as rightfully belonging to the theme, and so is left unshortened in the pada-text: such are dakshinavant, çîtikavant, hladikavant, ulkushîmant, aud jyotishîmant.

Of the words mentioned above, only two—viz. açvavant (vi. 68. 3. xviii. 3. 61) and vîryavant (viii. 5. 1. xviii. 4. 38)—ever show in sanhitâ forms having the vowel short. The former of them is specially noted

in the Vâj. Pr. (iii. 97) as doing so in a single instance.

इक्षायां च यकारादी ॥ १८॥

18. As also before a suffix beginning with y, in a desiderative form.

In this rule, the anuvṛtti of bahulam is duly indicated, by the insertion of ca. As examples of desiderative forms exhibiting the lengthened vowel before y, the commentator cites adhvariyatâm (i. 4.1: p. adhvari-yatâm), vṛshâyamânaḥ (ii. 5.7: p. vṛsha-yamânaḥ), and catrâ-

^{*} Our pada MS. does, indeed, read rocanavant (xiii. 3. 10), without separation: but this is, it can hardly be doubted, a mere error of the scribe.

yatim abhi (iii. 1. 3: p. catru-yatim): as examples of the short vowel, he gives arâtiyât (iv. 36. 1: p. arâti-yât), janiyanti (xiv. 2. 72: p. jani--yanti), putriyanti (xiv. 2. 72: p. putri-yanti), and mrgayuh (x. 1. 26: p. mrga-yuh)—adding to the last word prabhrtani ca, which I take to be, not a part of this or of any other citation, but (with amendment to prabhrtîni ca) a simple expression for 'et cetera; although the commentator does not anywhere else, I believe, give us such an intimation that more examples might be had for the seeking. The only ones of this class which our text farther presents are sukshetriya and sugatuya (both at iv. 33, 2: p. su-kshetriyā: su-gātuyā), besides amitrayu, in the twentieth book (xx. 127. 13). Of cases of the long vowel, we have also aghâyant (e. g. x. 4. 10: p. agha-yant) and aghâyu (e. g. i. 20. 2: p. agha-yu: in abhyaghayanti [v. 6. 9 and vii. 70. 3*] the pada-text leaves the vowel long, writing abhi-aghâyânti), vasûyâ (iv. 33. 2: p. vasu-yâ), capathîyant (e. g. v. 14.5: p. capathi-yant), janîyant (vi. 82.3: p. jani-yant), amitrâyant (vii. 84.2: p. amitra-yant: the Rik, in the corresponding passage [x. 180. 3], has the short vowel), kaviyamana (ix. 9. 18: p. kavi-yamana), and nipriyayate (xii. 4.11 etc.: p. ni-priyayate): satvanâyant (v. 20. 1) seems to belong to the same class, but it is written by the pada with the long vowel, satvanâ-yan. From the themes amitra and jani, it will be noticed, come desiderative or denominative forms of either class, or with both the short and long vowel.

तृतीयात्तस्य ॥ ११ ॥

19. As also the final vowel of an instrumental case.

In the form of this rule there is nothing which continues the implieation of bahulam, but such an implication is, of course, unavoidably necessary, and is made by the commentator. As instance of the long vowel, he cites yena sahasram vahasi yena 'gne sarvavedasam (ix. 5. 17); as instance of the short vowel, kena crotriyam apnoti (x. 2. 20). All the cases occurring under this rule have been detailed above, in the note to rule 16: excepting tená and yená, which are tolerably frequent (tená occurs 24 times, and yena 8 times), we have, of instrumentals with lengthened finals, only a few sporadic instances, viz. sahasyenâ, bhadrenâ, amrtena, kavyena, and martyena, each in a single passage. Of other forms of declension which undergo a like prolongation, the text affords us two genitives, asya and harinasya; and, as accusative singular, puru is twice lengthened into purû. Besides these, we find only such forms as janimâ for janimâni, in which the long vowel may be more properly regarded as thematic and not metrical. This latter class of cases, however, has been reckoned in with the rest under rule 16, because it is so treated by the pada-text, which writes the final vowel short.† In a single instance (brahma: v. 2. 8) the sanhitâ preserves the short vowel.

^{*} Amended in the published text to abhyaghâyáti.

Excepting in two cases, viz. varimâ (iv. 25.2), and nâmâ (ix. 9.3). I do not at all understand the reason of these exceptions, and they may possibly be misreadings of our pada MSS.; the pada-text reads nâma at v. 1.3, and in the Rik passage (i. 164.3) corresponding with ix. 9.3, both pada and sanhitâ give nâma.

रलीपे ॥ ५०॥

20. When r is dropped, the final vowel is lengthened.

The other treatises (R. Pr. iv. 9, r. 29, cexlviii; V. Pr. iv. 34; T. Pr. viii. 17), with better reason, give this rule in connection with that for the omission of the final r, which takes place (by ii. 19) only before a following initial r. The commentator repeats once more the same series of quotations which he has given already twice before, under i. 28 and ii. 19, only excepting the first, caradah purûcî râyah (ii. 13. 3): he then, as if in surprise at his own audacity, asks himself why he has omitted this; and makes reply that, although it offers an instance of the loss of a final r, it shows no protraction of the vowel, which was long already.

ः नारकादीनां प्रथमस्य ॥ ५१॥

21. Of naraka etc., the first vowel is lengthened.

The commentator eites only three cases under this rule, viz. nārakam (xii. 4. 36: p. narakam), sādanam (e. g. ii. 12. 7: p. sadanam), and āsata indra (viii. 4. 8: p. asataḥ). The first word oeeurs only once in the Atharvan; the second is found several times, but sadana, with short antepenult, still oftener; for āsat we have also two other passages in the same hymn with the one quoted (viii. 4. 12, 13). Besides these, the word of most frequent oeeurrence, belonging to the same elass, is purusha, which usually* becomes pūrusha at the end of a pāda (as noted by the Vāj. Pr., iii. 118), or where its first syllable has that place at which a long vowel is especially needed in the eadenee of the pāda. Moreover, the text offers us sūyamān (iv. 27. 1: p. su-yamān†), and sūyavasa (e. g. iv. 21. 7: p. su-yavasa), with its compound sūyavasād (vii. 73. 11: p. suyavasa-at). Causative forms, such as yāvaya (p. yavaya), which the treatise perhaps meant to include in this rule, have been spoken of above, under rule 15.

दीदावादीनां दितीयस्य ॥ ५५ ॥

22. Of dîdâyat etc., the second vowel.

The commentator's examples are dîdâyat (iii. 8.3: p. dîdayat), ushâso vîravatîh (iii. 16.7: p. ushasah), and ushâsânaktâ (e. g. v. 12.6: p. ushasânaktâ). The latter compound occurs several times in onr text: from the theme ushas we have also once (xiii. 2.46) the accusative ushâsam (p. ushasam). The only other word of like character which I have noted in the Atharvan is grathâya (vii. 83.3: p. grathaya). A part of the compounds exhibiting protraction in the final syllable of the first member, and of which a detailed list has been given above, under

kim artham idam nodurddhate: puruei rayah: yady api ralopo dirgha evaivah. The reading is very corrupt, but the thing simed at is, I believe, clear.

^{*} In the Atharvan only usually, and not universally: exceptions are v. 30.2. viii. 7.2. xi. 8.32. xii. 4.13. xix. 6.1, and one or two others.

[†] The edition reads, with I. and H., suyaman.

rule 12, might be regarded as falling under this rule; but as a part of them also would not, since it is their third syllable that is prolonged, and not their second, I preferred to give them all together in that place.

सात्रासाक्।दीनामुत्तर्पदाचस्य ॥ ५३ ॥

23. Of the compounds sâtrâsâha etc., the first vowel of the second member.

The instances cited by the commentator are sâtrâsâhasya (v. 13. 6: p. sâtrâ-sahasya), amitrasâhaḥ (e. g. i. 20. 4: p. amitra-sahaḥ), and vi-shâsahiḥ (e. g. i. 29. 6: p. vi-sasahiḥ); all of them from the root sah. The text furnishes another derivative from the same root belonging under this rule, viz. abhimâtishâhaḥ (iv. 32. 4: p. abhimâti-sahaḥ): the only other case which I have found is nyâyanam (vi. 77. 2: p. ni-ayanam). The word ukthaçâsaḥ, which the pada-texts of the Rik and White Yajus write uktha-çasaḥ, and which therefore receives attention from their Prâtiçâkhyas (R. Pr. ix. 19; V. Pr. iii. 122), is read in our pada (xviii. 3. 21) uktha-çâsaḥ.

ऋत वृधवरीवानेषु ॥ ५८ ॥

24. Of rta, the final vowel, before vrdh, varî, and vân.

The instances cited by the commentator are rtarrdhah (e. g. xi. 6. 19: p. rta-vrdhah), rtavari yajñiye (vi. 62. 1: p. rta-vari), and rtavanam vaiçvanaram (vi. 36. 1: p. rta-vanam): the same words occur elsewhere, in a few passages which it is unnecessary to specify; they always show a long vowel in sanhita and a short in pada, while the other numerous compounds of rta have everywhere the short vowel only.

ऋघ त्यंधीःपर्वर्जम् ॥ ५५ ॥

25. Also that of adha, excepting when followed by tyam and dhîh.

The commentator's illustrative citations for $adh\dot{a}$, with lengthened final, are $adh\dot{a}$ yath\u00e4 nah (xviii. 3. 21), and $adh\dot{a}$ pith\u00e4 nah (xviii. 2. 23): he also quotes the exceptions mentioned in the rule, as follows: $adha\ tya\dot{m}\ drapsam$ (xviii. 1. 21), and $adha\ dhir\ ajayata$ (xviii. 1. 21). There is, however, yet another case in the text in which the final vowel is left short, and which has been overlooked both by treatise and commentator: it is $adha\ syama$ (xviii. 3. 17). All the passages in which $adh\dot{a}$ occurs have been given above, in the note to rule 16. Except in the single case in which it is followed by dhih, the word always stands at the beginning of a p\u00e4da. The commentator adds from this metrical authority a verse containing a virtual repetition of the rule: $adhe\ 'ti$ $vya\u00e4 jane\ dirgho\ varjayitv\u00e4 tyadh\u00e4 param: svar\u00e4 da\u00e4 api\u00e4 sarvatra\u00e4 vya\u00e4 jane\u00e4 hrasva\u00e4 eva tu; '\u00e4 adha\u00e4 is long before a consonant, excepting the cases in which it is followed by <math>tyam$ and dhih; but before a consonant preceded by a vowel (?) it is everywhere only short.'

^{! -}MS. svadárávayya.

Very little can be said in praise of the manner in which our treatise, in this section, deals with the intricate and numerous phenomena of the irregular prolongation of vowels in the Atharvan text; its statements are greatly wanting in accuracy, in completeness, and in systematic construction and arrangement. The form of its general rules, which embrace a great number of cases, is objectionable from indefiniteness: the cases which are made the subject of its special precepts are chosen arbitrarily and with little judgment, and in part are such as required no notice; while, on the other hand, it is doubtful whether one or two classes of cases are provided for at all: and finally, in several instances it abdicates altogether the office of a Prâtiçâkhya, and, instead of determining the usage of its school as to the points upon which it touches, leaves them as unsettled as it found them.

As elsewhere in the signature of the separate sections of this chapter, no statement is made respecting the number of rules which the section contains: the manuscript says simply trityasya prathamah pâdah.

पदाने व्यञ्जनं दिः॥५६॥

26. At the end of a word, a consonant is pronounced double.

The subject of the duplicated pronunciation of consonants, or of the varnakrama, as it is sometimes called, is one of the most peculiar in the whole phonetical science of the Hindus. It is also the one, to my apprehension, which exhibits most strikingly their characteristic tendency to arbitrary and artificial theorizing; I have not succeeded in discovering the foundation of fact npon which their superstructure of rules is based, or explaining to myself what actual phonetic phenomena. liable to occur in a natural, or even a strained, mode of utterance, they supposed themselves to have noted, and endeavored thus to reduce to systematic form. The varnakrama, however, forms a not inconspicuous part of the phonetic system of all the Prâtiçakhyas, and is even presented by Panini (viii. 4. 46-52), although the latter mercifully allows us our option as to whether we will or will not observe its rules. To present and compare in full detail the systems of the other authorities in connection with that of our own treatise would take a great deal of room, and, moreover, could be done at best but imperfectly, since our manuscript, as will be shown below, exhibits a lacuna of some extent and importance in the midst of its treatment of the subject. I shall accordingly only refer under each of our own rules to those precepts of the other treatises which are most nearly related to it.

If the first rule of the second chapter is still to be strictly applied, we must conclude that the makers of the Prâtiçâkhya recognized the duplicated methods of pronunciation as of force only in the sanhitâpâtha, and not in the utterance of the disjoined text, or the padapâtha. This interpretation is somewhat supported by the fact that both the Rik Pr. (vi. 3, r. 14, cccxc) and Pâṇini (viii. 4. 51) attribute to Çâkala or Çâkalya, the teacher to whom the invention of the padapâtha is generally ascribed, a denial of all duplicated utterance.

As regards our first rule, it is directly in contravention with the doc-

trine of the other treatises (R. Pr. vi. 2, r. 7, ccclxxxiv; V. Pr. iv. 114; T. Pr. xiv. 15), which manimously teach that a consonant is not displicated in pausa. The commentator's instances are again godhuk, virât, drshat, trishtup, the same words which we have had adduced so many times before (see i. 3 etc): they are accordingly to be pronounced godhukk, virâtt, drshatt, trishtupp; but the manuscript omits, as in almost all the examples given under the following rules, to write the duplicated letter double.

ङ्गाना ऋस्वोपधाः स्वरे ॥ ५७॥

27. As are also \dot{n} , \dot{n} , and n before a vowel, when final and preceded by a short vowel.

This is a rule familiar to all students of Sanskrit, as being obligatory in the euphony of the later classical dialect, and not in the older language of the Vedas alone. It is equivalently stated by all the treatises (R. Pr. vi. 4, r. 15, cccxci; V. Pr. iv. 104; T. Pr. ix. 18, 19), except that the others omit the needless mention, along with the other two nasals, of n, which never occurs as a final. Pâṇini's pratyàhâra (viii. 3. 32) includes all the three. Pâṇini and the Tâitt. Pr. very properly treat this doubling of a final nasal as something apart from and unconnected with the phenomena of the varnakrama, by teaching it in a different part of their texts from that which deals with the latter subject; and in the Rik Pr., also, the rule rather follows next after, than is introduced among, those which prescribe the other duplications.

The commentator cites, as examples of a final nasal doubled, pratyann rnoti (not in AV.), pratyann ud eshi (xiii. 2. 20), udyann adityah (ii. 32. 1), and sugann aste (no such case in AV.: the instance is also given by Panini's scholiasts). To illustrate the necessity of the restrictions "when preceded by a short vowel" and "before a vowel," he cites arvan akûtya caru (iii. 2. 3), and udan jatah (v. 4. 8). Finally, he quotes from his metrical authority a verse which restates the rule, with examples: nananas tu padanta ye hrasvapûrvah svarodayah: tesham dvir-

bhavam ichanti pratyann udyann sugann iti.

संयोगादि स्वरात् ॥ ५०॥

28. Also the first consonant of a group, after a vowel.

In all the other treatises (R. Pr. vi. 1, r. 1, ccclxxviii; V. Pr. iv. 97; T. Pr. xiv. 1), this is put at the head of the subject of the *vornakrama*, as the fundamental and most important rule.

The commentator gives as instances the two indifferent words agnih (e. g. i. 7.4) and vrkshah (e. g. iv. 7.5), which are to be pronounced aggnih and vrkkshah. Then follows a lacuna in the manuscript, of some extent and importance, since it certainly includes one or more rules. After the two quoted examples, namely, follows visarjaniyah sasthane ca, of which the two last words constitute a rule which the commentary goes on to expound in full, while the first, visarjaniyah, is the final repetition of the rule next preceding: and in both of them there is anuviti

of na, 'not;' that is to say, the text has passed from giving rules for the occurrence of the duplication, to giving those for its non-occurrence. As we have found several times before, where there were lesser lacuna, that the copyist had skipped carelessly from a word to a like word farther on, so we may suppose the same to have taken place here: agnih and vrkshah were very probably quoted again as examples under the rule visarjaniyah, and, the copyist's eye falling upon them, he overleaped all that intervened. It may be, however, that this conjecture is erroneous, and that the lacuna is of greater extent than would fairly admit of such an explanation. How many rules it includes, there are no means of determining: of this chapter we appear to have remaining ninety-six rules, while its signature states a hundred and five to be the number contained in it; but, on the one hand, we have not hitherto found reliable the numbers given in the signatures to the chapters; and, on the other hand, there is still another lacung, of undetermined extent, in the fourth section (see under rule 80); and yet once more, we cannot be absolutely certain that the commentator does not, in one or two cases. state and expound two or more rules together, as once or twice in the first chapter (rules 12-13, 14-16). The treatment of the general subject by the other Praticakhyas varies so much, as regards fullness of detail as well as the doctrines held on minor points, that I do not venthre to attempt to fill up, by their guidance, the gap which the carelessness of our copyist has left, and I continue without break the enumeration of the rules which still remain to us.

[न] विसर्जनीयः॥५१॥

29. Visarjanîya is not doubled.

The other treatises also exempt visarjantya from duplication: see Rik Pr. vi. 1 (r. 1, ccclxxviii), Vâj. Pr. iv. 112, and Tâitt. Pr. xiv. 15.

As already explained, in the preceding note, it is probable that the commentator gave again, in order to show that visarjaniya is not doubled when final (hy iii. 20), like any other consonant, the instances agnih and vrkshah.

सस्याने च ॥३०॥

30. Nor a consonant which is followed by another of the same class.

The Rik Pr. makes no such exception as this: the other two treatises, however, do so, and each divides the precept into two, the one (V. Pr. iv. 108; T. Pr. xiv. 23) prohibiting the doubling of a consonant when followed by the same consonant, the other (V. Pr. iv. 113; T. Pr. xiv. 23, last half), when followed by a mute of the same series; the Vaj. Pr. farther specifying that the following mute must not be a nasal.

The commentator cites as instances a number of words, evidently without any particular reference to the Atharvan text, although two or three of them happen to occur there: they are indrah (e. g. i. 9. 1),

candrah (e. g. ii. 15. 3), mandrah (xviii. 1. 30), ushtrah, kroshtrah (kroshtre, xi. 2. 2), bhråshtram, neshtram, and råshtram (e. g. iii. 4. 1). Several of them are found also in the scholia to Pånini, as illustrations of his rule (viii. 4. 50) that, according to Çâkatâyana, no duplication takes place in a group of more than two consonants. The instances are wanting in variety, as illustrating our text, since they all present groups of three consonants, while we must suppose our rule to apply no less to groups of two, and to forbid duplication in such words as antah, asti, ashta, etc.

रेफक्कारी परं ताभ्याम् ॥३१॥

31. Nor r and h—but the consonant following those two letters is doubled.

The commentator's examples are those which have been already given, and in part twice, under i. 58 and i. 100, and they need not, therefore,

be repeated here.

The Rik Pr. (vi. 2, r. 4, ccclxxxi) subjects only r to this rule, leaving h to meet the same treatment with the other spirants; the Tâitt. Pr. (xiv. 4) does the same; the precept of the Vâj. Pr. (iv. 98) is to the same effect with ours, and so is also that of Pâṇini (viii. 4. 46), except that the latter here, as elsewhere, merely allows, and does not require, the duplication.

शषसाः स्वरे ॥३५॥

32. Not, however, c, sh, and s, before a vowel

This is an exception, of course, to the latter part of the preceding rule, since the sibilants would not, by any other precept, be subject to duplication before a vowel. The illustrations given in the commentary are none of them from the Atharvan, although a part of them are to be met with in the scholia to the corresponding rule of Pâṇini (viii. 4. 49); they are karshati, âdarçah, akshatarçah, and tatarshat purodāçam. As counter-example, to show that the sibilant is exempt from duplication only before a vowel, we have given us vârshshyodakena yajeta, which is also no citation from the Atharvan text.

The Rik Pr. (vi. 2, r. 10, ccclxxxvii) exempts from duplication any spirant, when followed either by a vowel or by another spirant. The Taitt. Pr. (xiv. 16) and Panini (viii. 4. 49) precisely agree with our treatise. The Vaj. Pr. fails to make any corresponding exception.

The manuscripts of the Atharva-Veda, so far as known to me, do not, save in very infrequent and entirely sporadic cases, follow any of the rules of the varnakrama proper (rule 27, as already remarked, is really of another character), excepting the one which directs duplication after a r; and even in this case, their practice is as irregular as that of the manuscripts of the later literature. See Weber, pp. 246-248, for interesting statements respecting the usages of the codices of the Våjasaneyi-Sanhitå.

प्रमृत्याश्च प्रकृत्या ॥३३॥

33. The pragrhya vowels remain unchanged.

As was already remarked above, under i. 73, the designation of certain vowels as pragrhya, made in the first chapter (rules 73-81), is not enough to exempt them from the operation of the rules for the combination in sanhità of final and initial vowels: it is deemed necessary to add here that the vowels so designated maintain under all circumstances their own proper form. The method of the Rik Pr. and Vâj. Pr. is the same: see R. Pr. ii. 27 (r. 50, 51, clv, clvi); V. Pr. iv. 84. The commentator's examples are kena parshnî abhrte: parshnî iti (x. 2. 1), indravâyû ubhâu: indravâyû iti (iii. 20. 6), and ubhâv indrâgnî â bharatâm: indrâgnî iti (v. 7. 6). The text offers a single case in which a final pragrhya vowel is combined with a following initial: it is nrpati 'va (viii. 4.6). The same passage is found in the Rig-Veda (vii. 104.6), exhibiting the same anomalous sandhi, and such exceptional cases are duly noted by the Rik Pr. (ii. 27, r. 54, clix), as is one of the same character by the Vaj. Pr. (iv. 86). That no reference is made to the passage in our treatise is possibly to be taken as an indication that the true Atharvan reading is nrpati iva, as is actually given by E. and I.

एना एका स्रादयश्च ॥ ३८ ॥

34. Also enâ ehâḥ etc.

The passage cited in the rule as heading the gana is found at xii. 3. 33, where both sanhità and pada read enà' eha'h pari etc., the establishers of the pada-text evidently regarding ena as the instrumental of the pronominal root a. To me, however, it seems more plausible to take the word as accusative plural feminine of the pronoun ena, which is usually euclitic, but in one or two instances (see the Böhtlingk-Roth lexicon, sub verbo) is accented, when standing at the head of a pada. The form then would be ena'h, and the sandhi perfectly regular, and its treatment as an irregularity would be due only to a misapprehension on the part of the author of the pada. The other cases cited by the commentator, as composing the rest of the gana, are yatha man na 'paga asah (i. 34. 5. ii. 30. 1. vi. 8. 1-3), and prthivî uta dyauh (xviii. 1. 5). The latter is found also in the Rig Veda (x. 10. 5), and is noticed by its Prâtiçâkhya (ii. 39). The other is a somewhat intricate case. gards, first, the accent of the word-all analogy requires that, as containing a root for its final member, it should be accented upon the last syllable, apaga'. Thus, indeed, the pada-text actually reads where the passage first and last occurs; but at ii. 30. 1 it gives apa-ga, and with this accentuation agree all the sanhita manuscripts in every instance, so that this reading has been received into the printed text. Second, as regards the form—there is not, so far as I can see, any reason why we should not regard apaga as the theme of the word, and not apaga, and so consider the form as found in the text to be apagas, and the sandhi to be entirely regular. It is true that most of the Atharvan compounds

into which the root gam or ga enters as final member exhibit it in the shortened form ga (as durgá, sugá, svargá), but we have once purogâ (v. 12.11), and in like derivatives from other similar roots, as jan and pâ, the short and long forms exchange with one another quite irregularly (e.g. prathamajáh, iv. 35. 1, and prathamajáh, iv. 4. 5). I should be inclined to accuse the pada-text of a similar misapprehension in this passage with that exhibited in the other. There are one or two other cases in the Atharvan text which belong more or less clearly under this In iv. 16. 1, all the sanhita MSS., without exception, read adhishthata antikad iva (p. adhi-sthata): the edition treats this as a blunder, and amends to adhishthata 'ntikad iva, but it might be possible to regard the passage as offering a case of anomalous sandhi. The theory of an error in this case, in which all the sanhita MSS, chance to coincide, is supported by the analogy of the quite similar passage rocanâ': asyá, at vi. 31. 2, where P., M., and I. read rocaná' asyá in sanhitá, while W., E., and H. give rocanâ' 'syá, with the Rik, Sâman, and White Yajur Vedas. At v. 26. 8, where the sanhitâ manuscripts read rûpâ' asmîn, the pada has rûpâ'h: asmin. Unless authority for rûpâ as a feminine noun can be found clsewhere, it will probably seem easier to regard rûpâ as a briefer form of rûpâni, and the sandhi as an anomalous one. A like case is vii. 97. 4, sádanâ akarma, where Bp. is amended by a second hand from sádanâ to sádanâh. An evident instance of pretty gross blundering is to be seen at xviii. 4.58, where, instead of pratarito shásam, as the sense and metre require, and as is read by the Rik and Sama Vedas (RV. ix. 86. 19; SV. i. 559), all our sanhita manuscripts present pratárità ushásâm, which the pada also supports by giving pra·tárîtâh.

यवलोपे ॥३५॥

35. Where y or v has been dropped, the preceding vowel remains unchanged.

That is to say, wherever, by the loss of a final y or v according to the phonetic rules of the second chapter (ii. 21), a hiatus takes place, and two vowels are brought into juxtaposition with one another, they are not combined, but the hiatus remains. Two vowels can be thus brought together, according to the rules of our treatise, only by the loss of y and v, a final visarjaniya being converted into y, by the theory here taught, before its final disappearance. The same prohibition against applying the rules of combination twice over to the same case is given by the other treatises (R. Pr. ii. 2, r. 5, cix; V. Pr. iii. 3), in the form of a general precept, governing and restricting the application of its special rules.

As instances, the commentator cites again the whole series of passages

given under ii. 21, and which I refrain from repeating here.

Although this is a rule of universal application as regards the mode of writing the text, the metre shows that it was not always observed by the authors of the hymns: see, for example, ix. 4. 19, 23, where we have to read brâhmanebhya rshabham dattvâ and asmin goshtho 'pa prāca nah, instead of brâhmanebhya rshabham and goshtha upa. Such

cases are not infrequent. In a single instance, too (x. 1. 15), our sanhitât MSS. make the double combination, reading ayam panthâh krtye'ti tvâ nayâmah, instead of krtya iti (p. krtye: iti);* but the edited text has restored the latter reading.

केवल उकारः स्वरपूर्वः ॥३६॥

36. Also an u forming a word, when it is preceded by a vowel.

That is to say, of course, the particle u—whenever, by the operation of the euphouic rules, a hiatus is produced before it. There are found but three such cases in the Atharva-Veda; two of them are cited by the commentator, as follows: sa u eva mahayamah (xiii. 4. 5), and sa u açmanam asyati (xiii. 4. 41); the third is ayam và u agnih (xv. 10. 7).

The corresponding rules of the other treatises are Rik Pr. ii. 28 (r. 55, clx), Vaj. Pr. iv. 87, and Taitt. Pr. ix. 16, 17: the Rik Pr. also leaves the u unchanged after a y arising from conversion of an original i, one such case occurring in its text (praty u adarci, vii. 81.1), while the Taitt. Pr. inserts a transition v between the u and the following vowel.

नमी संध्यी॥३७॥

37. Also n and m, when the results of euphonic processes.

The commentator fabricates his examples, instead of deriving them from the Atharvan text: they are nadim tarati and trishtum nayati. The former is intended to show that a n which is the result of the assimilation of a final m, by ii. 31, before an initial t, is not liable to a farther insertion of a sibilant before the t, by ii. 26; the latter, that a m which grows out of the assimilation of a final labial to a following initial dental nasal, by ii. 5, is not then, by ii. 31, convertible into n by a second assimilation.

This rule is of the same character with the last but one, and is replaced, or rendered unnecessary, in the other treatises, by the general precepts there referred to.

म्राकारः केवलः प्रथमं पूर्वेण ॥३८॥

38. An d forming an entire word is first combined with the preceding vowel.

An instance will best explain the meaning of this rule. In the passage which the pada-text writes dhiyà: à:ihi, if à is first combined with the following word, it will form e'hi, and the combination of this with the preceding word will give dhiyài'hi: but if the combination of à with dhiyà be first made, producing dhiyà, the addition of ihi will give, as final result, dhiye"'hi. The latter is the true method of making the two successive sandhis, as we are taught by this rule, and by corresponding rules in the other treatises (R. Pr. ii. 2, r. 7, exi; T. Pr. v. 3);

^{*} P. only has, by a copyist's error, krtyûi 'ti in both its copies of the tenth book.

which, however, express themselves in a more general manner, declaring that all sandhis must be made in the order of their occurrence.

The commentator is this time conscientious enough to cite all the passages illustrating the rule which the text contains: they are dhiye" 'hi (ii. 5. 4), jushasve "'ndra (ii. 5. 4), stanayitnune "'hi (iv. 15. 11), kushthe "'hi (v. 4. 1), udakene "'hi (vi. 68. 1), and avapaçyate "'ta (xviii. 4. 37).

स्वरे नामिनो ज्नःस्या ॥३१॥

39. Before a vowel, an alterant vowel becomes a semivowel.

Instead of citing actual examples from the text, the commentator prefers to fabricate his illustrations, which are dadhy atra, madhv atra, matrartham, pitrartham: a part of them are identical with those given

in the scholia to the corresponding rule of Panini (vi. 1. 77).

The other treatises have corresponding rules: that of the Vâj. Pr. (iv. 45) being precisely like our own; that of the Rik Pr. (ii. 8, r. 21, 22, cxxv, cxxvi) being more elaborately stated; and that of the Tâitt. Pr. (x. 15) restricting the conversion into a semivowel to i, i, and u—a restriction which might with the same propriety have been made by all, since final \hat{u} is always pragrhya, and final γ nowhere in the Vedas, so far as I am aware, comes to stand before an initial vowel.

संध्यन्तराणामयवायावः ॥४०॥

40. The diphthongs, in the same situation, become respectively ay, av, dy and dv.

And then farther, by ii. 21, 22, the final semivowels are dropped, except in the case of $\hat{a}v$, so that of e and o is left before an initial only a; of $\dot{a}i$, only \dot{a} —which vowels are then exempt, by iii. 35, from farther combination with their successors. The absorption of initial a by final e and o, and its retention without change after them in some cases, is

taught by rules 53 and 54, below.

The commentator's illustrations are again of his own devising, for the most part; they are agna asam, vaya asam, agna utaye, vaya utaye (iv. 25.6), asma ud dhara, asav adityah (xv. 10.7), gvayanam, cayakah, lavanam, layakah, pavanam, pavakah (e. g. vi. 47.1). The last six are examples of applications of the rule which the Praticakhya does not contemplate. A few of the instances are identical with those given under the corresponding rules of Panini (viii. 3.18, 19. vi. 1.78).

The Rik Pr. (ii. 9, 10, 11, r. 25, 28, 31, cxxix, cxxxii, cxxxv) converts $\acute{a}i$ and $\acute{a}u$ directly into \acute{a} , and \acute{e} and o directly into \acute{a} , adding that after the \acute{a} and \acute{a} which come from \acute{a} and $\acute{a}u$ a \acute{v} is inserted except before a labial vowel. The Vâj. Pr. (iv. 46) and Tâitt. Pr. (ix. 11-15) precisely

agree with our treatise.

पूर्वपर्योरेकः ॥ ४१॥

41. In the following rules is taught the fusion of a preceding and a following vowel into a single sound.

This is a general heading or adhikara for that which is to follow, or a rule governing the interpretation of the remaining rules in the section. The technical language of the Praticakhyas has no recognized method of indicating the fusion of two sounds into one, and the form of the following rules is ambiguous, since rule 44, for instance, literally means, according to the usual phraseology of the treatise, that a before i becomes e, and not a with i. Hence the necessity of this special rule of interpretation: it has its correspondents in the Vaj. Pr. (iv. 49), and the Taitt. Pr. (x. 1); while the Rik Pr. (ii. 6 etc.) attains the desired end by a fuller or less technical mode of statement.

समानाचरस्य सवर्णे दीर्घः ॥ ४२ ॥

42. A simple vowel, with one of like quality, becomes long.

The commentator's illustrations are again of his own making: they are dandagram, dadhindrah, madhûshnam, hotreyah, and pitreyah. For the last case, indeed, the combination of two r's, no Vedic examples could be found.

The corresponding rules of the other treatises are Rik Pr. ii. 6 (r. 15,

exix), Vaj. Pr. iv. 50, Taitt. Pr. x. 2.

सीमते क्रस्वः॥४३॥

43. In sîmanta, the resulting vowel is short.

A most blundering and superfluous rule! The Atharva-Veda contains no such theme as simanta. In the passage which the commentator cites in illustration of the rule—viz. jinato vajra tvam simantam (vi. 134. 3)—the theme is evidently simant, from which we find also a plural accusative, simatah, at iv. 1. 1; it is a parallel form with, and equivalent to, sîman, of which the text affords us an accusative singular, simanam, at ix. 8. 13. The rule evidently assumes simanta as the theme, and regards it as composed of siman and anta. Our pada-text, as might be expected, makes no attempt to analyze the word. commentator, after his illustrative citation, adds to the rule a restriction of his own, quite in the style of a varttika to Panini, as follows: simante keçaveshte 'ti vaktavyam: yo hi sîmno antah sîmântah sah; 'it should have been said, "in sîmanta, when it means the parting of the hair:" for the extremity (anta) of a boundary (sîman) is sîmânta.' however, sîmânta does not occur in the Atharvan, the limitation is just as impertinent as the original rule: more so, it could not well be. Compare varttika 3 to Pan. vi. 1. 94.

ग्रवर्णस्येवर्ण एकारः ॥ ४४ ॥

44. A and â, with i and î, become e.

The commentator's illustrations, as given by our manuscript, are ravadgomâlendrah, which, however, a comparison of the examples under the next rule and under the corresponding rule of Pânini (vi. 1. 87) shows to require amendment to khatvendrah, mâlendrah.

The corresponding rules of the other treatises are Rik Pr. ii. 6 (r. 16, exx), Vâj. Pr. iv. 52, and Tâitt. Pr. x. 4.

उवर्ण स्रोकारः ॥ ४५ ॥

45. With u and \hat{u} , they become o.

The commentator, as so generally in this portion of his work, makes his own illustrations, viz. khatvodakam, mālodakam: compare under Pān. vi. 1.87.

See the identical rules in the other treatises: Rik Pr. ii. 7 (r. 17,

exxi), Vâj, Pr. iv. 52, and Tâitt. Pr. x. 5.

There is a single instance in the text, in which this rule is not observed, and $a+\dot{u}$ are not combined into o, but into $\dot{a}u$: it is the word $pr\dot{a}udhah$ (xv. 15.4: p. $pra-\dot{u}dhah$). B., indeed, reads prodho, but doubtless only by an error of the copyist. We must suppose, either that the authors and commentator overlooked this word, or that its pada as well as $sanhit\dot{a}$ reading in their text would be $pr\dot{a}udhah$, or that the passage containing it was not in their Atharva-Veda—of which suppositions, I should regard the first as the most plausible, and the last as the least likely.

ऋरमृवर्षो ॥४६॥

46. With r and \hat{r} , they become ar.

The commentator's examples are tasya rshabhasya 'ngani (ix. 4. 11), yajñartah (viii. 10. 4: p. yajña-rtah), kamartah (not in AV.), and nai 'nan avartih (iv. 34. 3: the pada-text always writes the word avartih,

without separation).

The Taitt. Pr. (x. 8) makes the sandhi in the same manner as our treatise: the Rik Pr. (ii. 11, r. 32, exxxvi) and Vaj. Pr. (iv. 48), however, treat it very differently, merely prescribing that both a and a become a before r, without requiring the conversion of the latter into r. The usage of the sanhità manuscripts of the Atharva-Veda is in conformity with neither rule; they follow a method of their own, in which is to be recognized the influence of a doctrine agreeing with or resembling that of our Prâtiçâkhya respecting the svarabhakti, or fragment of vowel sound, assumed to be thrust in between r and a following consonant (see i. 101, 102). Where the phonetical theory requires the insertion of the longer svarabhakti, or where a sibilant follows, there the manuscripts usually and regularly give the vowel r instead of r, reading iva rshabhah (iii. 6. 4), svasa rshînâm (vi. 133. 4), ctc.; before any other consonant, or where our treatise and the Rik Pr. interpose the shorter svarabhakti after the r, and the other Praticakhyas require no insertion at all (see the note to i. 101, 102), there our manuscripts regularly make the combination according to the rule now under discussion, writing rtasya rtena (vi. 114. 1), iva rbhuh (x. 1. 8), sa rcâm (x. 8. 10), etc. These rules are not, however, altogether without exceptions: there are a number of passages in which one or more of the manuscripts read the semivowel r instead of the vowel r before a sh (viz. iv. 4. 8. ix. 8. 14.

15, 16. x. 7. 14a; 10. 10. xi. 1. 1, 3; 3. 38. xii. 1. 6. xiii. 1. 55. xv. 2. 4, first time), and even a few (viz. x. 7. 14c. xi. 6. 11. xv. 2. 4 (bis); 14. 4. xix. 9. 13) in which they all agree in so doing; and, on the other hand, while in the very great majority of cases the r is changed to r before any other consonant (it is found so changed, in the Atharvan text, before k, g, c, j, ch, t, d, n, dh, and bh), there are a very few instances (viii. 10. 4. xviii. 2. 31; 3. 24) in which one or more manuscripts leave it unaltered, and even two (x. 1.12; 5.30, hefore g and k) where they unanimously read r.* As regards the orthography of the sandhi in the published text, accordingly, three courses were open to the cditors: first, to follow the rule of the Praticakhya, and to convert the initial vowel everywhere into the semivowel; second, to carry out consistently the general principle derivable from the practice of the mannscripts, writing always r before a sibilant, and r before any other consonant; and third, to be governed everywhere hy the authority of the manuscripts where they were unanimous, and, where they disagreed, to give dne weight to the principle just referred to, in choosing between their discordant readings. Unfortunately the edition has adopted none of these courses, hut, while adhering with tolerable closeness to the manuscript readings through the early part of the text, gives everywhere only r from the heginning of the eighth hook onward, thus introducing the rule of the Rik and White Yajur Vedas, and following neither the Praticakhya nor the manuscripts of the Atharvan. The details given above, however, will show what are the readings of the manuscripts in any given passage.

It is worthy of remark that the manuscript of our commentary, like those of the Atharvan text, writes r in the first instance cited (tasya

rshabhasya), and r in all the rest.

There is a single passage of the text requiring special notice, as exhibiting in the sanhità manuscripts an entirely irregular sandhi of final à with initial r: it is at xviii. 2. 31, where the â of suçevâ is left unshortened before rkshâkam, B. writing suçevâ rkshâkam, and all the others suçevâ rkshâkam. Probably the reading is corrupt, or the words wrongly analyzed by the pada-text: perhaps we have to correct and divide suçevâ: ârkshîkâm.

उपर्षन्यादिषु च ॥४७॥

47. Also in uparshanti etc.

The words and forms contemplated by this rule are exceptions to the one next following, according to which we should have uparshanti etc. The commentator cites in illustration the passages yû hrdayam uparshanti (ix. 8.14), yûh pârçve uparshanti (ix. 8.15), and yûs tiraçcir uparshanti (ix. 8.16); and these are the only cases of the kind pre-

^{*} The lingual sibilant, sh, is the only spirant before which a sandhi of final a or a with initial r is made in the Atharvan text: the text does, indeed, contain a single passage in which such a combination should properly take place before r—viz. kramasva rça iva rohitam (iv. 4.7)—but the tradition has most palpably and grossly misunderstood and blundered over the phrase, and the pada writes it krama: svarçahiva: rohitam, instead of kramasva: right-iva: rohitam.

sented by the text, so that the "etc." at the end of the rule is quite superfluous as regards the Atharvan. In the passages cited, the pada reads upa-rshanti, and the sanhitā manuscripts, as already noticed in the last note, vary between uparshanti and uparshanti, W. even giving, in the second and third cases, uparishanti.

उपसर्गस्य धाबादावारम् ॥४८॥

48. The a or \hat{a} of a preposition, with the initial r or \hat{r} of a root, becomes $\hat{a}r$.

The commentator's illustrations are of his own fabrication, and in part are to be found under the corresponding rule of Panini (vi. 1. 91): they are uparshati, prarshati, uparchati, prarchati, upardhnoti, and prardhnoti. The only case arising under the rule in the Atharva-Veda is a rchatu, at ii. 12. 5. Our treatise might, then, like the Vaj. Pr. (iv. 57), have restricted the operation of the rule to the preposition a. The Taitt. Pr. (x. 9) states the principle in the same general form in which it is here given.

भूतकर्णास्य च ॥ ४१ ॥

49. As does also that of the augment.

This rule, of course, in a treatise whose subject is the sandhyapadyâu guṇâu of words (i. 1), is out of place and superfluous. It has no correspondent in any of the other treatises, and its chief interest and value to us lies in its presenting a term for 'augment'—bhûtakaraṇa, 'maker of past meaning'—which is elsewhere unknown, at least in the Prâtiçâ-khya literature.

The commentator cites, in illustration of the rule, sa ardhnot (iv. 39. 1 etc.); and also, as counter-example, showing that it applies only to the augment, katamá sa rcâm (x. 8. 10).

रकारिकारयोरिकारः ॥ ५०॥

50. With e and âi, a and â become âi.

Again the commentator gives us only fabricated illustrations, which, with the help of the scholia to the corresponding rule of Pâṇini (vi. 1. 88), are readable as follows: khaṭvâirakâ, mâlâirakâ, khaṭvâitikâyanaḥ, mâlâitikâyanaḥ.

The corresponding rules in the other treatises are Rik Pr. ii. 7 (r. 18, exxii), Vâj. Pr. iv. 55, Tâitt. Pr. x. 6.

स्रोकारीकारयोरीकारः ॥ ५१ ॥

51. With o and du, they become du.

The commentator this time presents us two actual citations from the

khadváiragáh: máláiragáh: khadvebhikáyamánasah: máláitikáyamánah.

text, viz. brahmâudanam pacati (xi. 1. 1: p. brahma-odanam), and tasyâu 'danasya (xi. 3. 1); but then adds a fictitious case, brahmâupagavah, which ocenrs also in Pâṇini's scholia (to rule vi. 1. 88).

The corresponding rules in the other treatises are Rik Pr. ii. 7 (r. 19,

exxiii), Vâj. Pr. iv. 55, and Tâitt. Pr. x. 7.

शकल्येष्यादिषु परत्रपम् ॥५५॥

52. In *çakalyeshi* etc., the result has the same form with the latter constituent.

The commentator cites under this rule the following cases: cakalyeshi yadi vâ te janitram (i. 25.2: p. cakalya-eshi), anamivâ upetana (iii. 14.3: p. upa-étana), arvâci gâur upe 'shatu (vi. 67.3), and upeshantam udumbalam (viii. 6.17: p. upa-eshantam). Of these cases, the first would equally admit of being regarded as a case of regular sandhi, and analyzed as cakali-eshi: the second is analogous with the combinations to which rule 38 of this chapter relates, the preposition â being in sanhitâ combined with upa, and then the resulting upâ with itana. Of this kind, the text presents one additional instance, in upeyimá (x. 1.10; p. upa-eyimá; it is made up of upa-â-îyimá): it is the only passage falling under the rule which the commentator does not give.

Similar cases are noted by the Rik Pr. at ii. 36, 37, by the Vaj. Pr.

at iv. 53, 54, and by the Tâitt. Pr. at x. 14.

रकारीकारात्तात्पूर्वः पदादेरकारस्य ॥ ५५ ॥

53. After a word ending in e or o, an initial a becomes one with the preceding vowel.

The commentator cites a few instances of this exceedingly common sandhi (the occurrence of which will be more particularly treated of under the next rule), as follows: te 'vadan (v. 17. 1: the instance, however, may perhaps be given as one fabricated, and not as a citation from the Atharvan text; it is found in the scholia to Pan. vi. 1. 115), te 'kravan (as is read both here and under iii. 55; perhaps we are to amend to te 'kṛnvan, but that also is not to be found in the Atharvan), so 'bravit (xv. 3. 2), yo 'sya dakshinah karnah (xv. 18. 3), and so 'rojyata (xv. 8. 1).

The physical explanation of this combination is exceedingly difficult. The Rik Pr. (ii. 12, 13, r. 33, 34, exxxviii, exxxviii) and Vâj. Pr. (iv. 58), as well as Pânini (vi. 1. 109), treat it in the same manner as our treatise, as a union of a with the preceding diphthong, or its absorption by the latter. The Tâitt. Pr. alone (xi. 1) teaches an actual loss or omission of the a.

क्वचित्प्रकृत्या ॥ ५८ ॥

54. Sometimes the a remains unabsorbed.

The commentator quotes from the text, in illustration, the passage ye agnayah (iii. 21. 1), and adds sahasrarcam ide atra, which is not found in the Atharvan text.

With this rule and the preceding our treatise makes short shrift of a subject which occupies long passages of the other Prâtiçâkhyas (R. Pr. ii. 13-26; V. Pr. iv. 58-82; T. Pr. xi. 1-xii. 8), and has cost their anthors a vast deal of labor. The saving is made, however, at the expense of its reputation and value as an authority for the readings of its text, since it does not determine the sanhitâ form of one of the many hundred passages in which initial a comes in contact with final e or a. There is not in the whole work another so discreditable confession of unwillingness or inability to cope with the difficulties of an intricate subject.

In endeavoring to make some systematic exhibition of the usage of the Atharvan text with reference to this sandhi, I have been able, after more than one trial, to devise no better scheme of presentation than one founded upon a comparison of the actual written usage of the text with the requirements of the metre. If there is any rule or system of rules, of a more formal character, underlying and determining the very various phenomena—which I cannot but seriously doubt—I have been unable to discover any trace of it. The tabular conspectus, then, is as follows—the lines distinguishing the cases in which the metre appears to require the retention of the a unabsorbed, as a separate syllable, from those in which its absorption is demanded, in order to make the verse of proper length; and the columns showing how often the a is by the manuscripts omitted and retained respectively:

	In	m-4-3		
	omitted.	retained.	Total.	
I. Where metre requires omission, IL Where metre requires retention:	252	. 41	293	
a, at beginning of pada,	198	39		
b, elsewhere in pâda,	102	965		
	300	1004	1304	
Total in metrical part of text,	552	1045	1597	
III. In unmetrical passages,	192	28	220	
Total in whole text,	744	1078	1817	

Upon examining this table, it will be seen, in the first place, that in the unmetrical portions of the Atharvan text the greatly prevailing method of making the sandhi is that which is followed in the Sanskrit literature proper, viz. by omission of the a: the proportion of omissions to retentions is that of 7 to 1. In the metrical portions, on the other hand, the more common custom is to retain the a, the retentions being to the omissions nearly as 2 to 1. When we come to inquire farther what was the usage of the makers of the hymns, we find that the proportion in favor of the retention of the a as a separate syllable is considerably greater, or almost as $4\frac{1}{2}$ to 1. There is, then, considerable discordance between the written and spoken usage in the metrical part; and yet this discordance appears in great measure at a single point, or where the final e or o of a pada precedes the initial a of another pada. In this situation—where, if ever, we should expect the traditional and written reading to correspond with the original spoken form of the verse—the recorded text usually leaves ont the a, and mars as much as it can the metrical form of the verse: the proportion of omissions to retentions is here as 5 to 1; and in the Rig-Veda, so far as I have observed, it is still larger: there can be but very few instances in the earlier portions, at least, of that text, where the custom of omission of a at the heginning of a $p\hat{a}da$ is not followed. Making exception of this special case, it may he said that the usage of the written text follows in the main the requirements of the metre—although with not infrequent exceptions, which in the case of the required omissions make somewhat less than a sixth of the whole number, and in the cases of required retention, considerably less than one-ninth.

There are, of course, a number of doubtful cases, where the metre is irregular and obscure, or where it might be restored either with the omission or the retention of the a as a separate syllable: hut, rather than form of them a separate class, I have determined and ranked each case according to my hest judgment; and the general relations and bearings of the scheme are not, I am sure, perverted by any errors I may have committed.

Here, at the end of the second section of the chapter, the manuscript says again simply trityasya dvitiyah pådah.

The proper subject of the next section is the calling forth or modification, in connection with the combinations of the phrase, of the accents already laid down and defined in the first chapter (i. 14-17). With this, however, is also connected a distinction and nomenclature of the different kinds of svarita or circumflex accent which the theory of the school recognizes: and the latter subject is even allowed in part to take precedence of and overlie the former, in such a manner as to render their joint presentation confused and imperfect, as will be pointed out in detail below. By way of introduction to the section, and hefore stating and explaining its first rule, the commentator gives us the following four verses: * shad eva svaritajātāni lākshanāh pratijānate: pūrvam purvam drdhataram mradiyo yad yad uttaram:-abhinihitah praclishto játyah ksháiprac ca tá ubháu: táirovyañjunapádavrttáv etat svaritamandalam:-sarvatikshno 'bhinihitas tatah praclishta ucyate: tato mrdutarâu svarâu jâtyah kshâipraç ca tâv ubhâu:-tato mrdutarah svaras tairovyanjana ucyate: padavrtto mrdutara iti svarabalabalam; 'those skilled in distinctions recognize six kinds of circumflex accent, and no more. Of these, each preceding one is harder, each succeeding one is softer: viz., the abhinihita, the prâglishta, and the jâtya and kshâipra, these two; farther, the tâirovyanjana and pâdavrtta: this is the series of circumflex accents. The abhinihita is entirely sharp; next is ranked the practishta; the next pair, of softer character, are the jätya and kshaipra, these two; the tairovyanjana is called softer than these; the pâdavṛtta is still softer: thus are laid down the relative strength and weakness of the circumflex accents.' We have here evidently the schemes of two different authorities, which accord quite closely with one another; the only difference being that the former seems to rank as equal the two accents last mentioned. Indeed, the commentator goes on to add, in accordance with this, apara aha: tairovyanjanapadavrttau tulyavrtti iti; 'another says, "the tairovyanjana

^{*} The last two of these verses are also cited in Uvata's commentary to the Vaj. Pr.: see Weber, p. 139.

and padavrtta are of like quality."' Other authorities, however, construct the scale somewhat differently: thus the Vaj. Pr. (i. 125) makes the order run as follows: abhinihita, kshaipra (with which the commentator declares the jâtya to agree in rank), praglishta, tâirovyanjana, tâirovirâma (see below, under rule 62), and pâdavrtta; while the Tâitt. Pr. (xx. 9-12) declares the effort of enunciation (prayatna) of the kshāipra and jâtya, together with the abhinihita, to be harder, that of the praclishta and pratihata (see under rule 62) to be softer, and that of the tairovyanjana and padavrtta to be yet less (alpatara). The Rik Pr., like our own treatise, takes no notice of these alleged differences of utterance among the different kinds of circumflex. It is not, however, without good reason that our commentator gives himself the trouble to state them, since their recognition can hardly have been without its important influence upon the division of the svarita into its numerous forms. The three arrangements quoted above agree, it will be noticed, in ranking the forms of the independent svarita above those of the enclitic, but are discordant as regards the relative position of the members of each class; and this may serve to us as a significant indication that the differences of secondary rank are of but trifling consequence. Precisely what is meant by "sharp" (tikshna) and "hard" (drdha) on the one hand, and "soft" (mrdu) on the other, is not very clear: but that the proper circumflex, which arises upon the combination into a single syllable of an original acute and an original grave element, is more strongly marked and distinct in its quality of double pitch than that circumflex which is only enclitic, need not be doubted.

After this preliminary exposition, the commentator goes on to add udâttah pûrvah: paro 'nudâttah: svaritah sandhih; 'an acute preceding; a grave following: their combination circumflex.' I am not altogether confident that this is not the first rule of the section, since, as we shall see, the two rules which follow are defective in form, and need some such predecessor. Considering, however, the faulty construction of the whole section, the limited and the faulty construction as an adhikâra or heading for and the absence of the paraphrase and repetition which ought to follow them, if they are a rule, I have not ventured to regard them as a part of the treatise; they are more probably an addition of the commentator, intended to supply the deficiency of the next two rules.

ष्टकारीकारी पदाली परतो ज्कारं सो जिनिहितः ॥ ५५

55. When an a is absorbed by a preceding final e or o, the resulting circumflex is abhinihita.

This is by no means a close version of the rule as it stands in the text; literally translated, it reads as follows: 'final e and o; following them, an a: that is abhinihita.' The construction presents a grammatical difficulty. If akâra, 'the sound a,' is not here used as a nenter—and such words are elsewhere only masculine—the form akâram must be understood as an accusative, and can only be construed as dependent upon paratah, used prepositionally, and taken as meaning 'before' in-

stead of 'after,' so that we must translate 'final e and o before an a: that is abhinihita: and to treat paratah thus seems to me hardly admissible.* The commentator does not help us much, but, if I rightly apprehend his meaning, he treats the word as a nenter nominative; his paraphrase reads ekârâukârâu padântâu udâttâu paratah akâram¹ padadi anudattam sa abhinihitah svaro bhavati; 'e and o, final, with acute accent; after them, a, initial, unaccented; that becomes an abhinihita accent (or vowel).' But passing over this difficulty, as of inferior consequence, since the virtual meaning of the phraseology is clear, we find another and a graver one in the fact that the form of the rule seems to imply that the occurrence of this svarita has been already sufficiently taught, and that nothing remains but to give it a name; while nevertheless the treatise nowhere informs us under what circumstances a circumflex accent arises in connection with the meeting of a final e or o and an initial o, or even that it arises at all. Its doctrine must be, of conrse, the same which is taught in all the other treatises; namely, that when an initial unaccented or grave a is elided after or absorbed into a final diphthong which itself has an acute accent, its own accent is represented in that of the resulting diphthong, reducing the latter from acute to circumflex. This case of circumflex, as well as that which forms the subject of the next rule, is an exception under rule 66 below. which teaches that a vowel resulting from the fusion of clements whereof one is acute, is itself acute: it ought, accordingly, to be specifically described and taught as such an exception. The admission as a rule of the words referred to above as used by the commentator before the statement of the precept now under discussion—viz. 'an acute preceding: a grave following: their combination circumflex'-would not satisfactorily relieve the difficulty, because this would be equivalent to setting up over against rule 66 another general rule opposed to if, without establishing in any way the relation between them. We can hardly avoid supposing that the constructors of this part of the treatise have not been skilful enough, or careful enough, to combine the two subjects of the section in such a manner as to give completeness to both. The Vâj. Pr. (iv. 59) and Tâitt. Pr. (xii. 9) give rules for the occurrence of the abhinihita circumflex in connection with those for the absorption of the initial a, and define and name the accent elsewhere (V. Pr. i. 114; T. Pr. xx: 4), when treating of the general subject of accent: the Rik Pr. deals with both matters together, but with clearness and precision, first prescribing the svarita (iii. 7, r. 12, excix), and then later (iii, 10) giving it its distinctive appellation.

The names of the different kinds of svarita are chiefly derived from those belonging to the enphonic combinations in connection with which they arise. These latter, however, are not expressly given in all the treatises. Thus, the Rik Pr. alone (ii. 13, r. 34, exxxviii) calls the absorption of initial a into preceding final e and o the abhinihita sandhi

^{*} The commentator uses paralah very often, in paraphrasing the locative of precedence, but always puts it after the locative: thus, in the first rule of this chapter, sahdu, 'before the root sah', is explained by sahdu paratah; and so in scores of other cases.

¹ akátra.

while the Vâj. Pr., as well as our own treatise, agrees with it in applying to the resulting circumflex the title of abhinihita. The Tâitt. Pr. (xx. 4) has for the same accent the slightly different name abhinihata,

which is palpably an artificial variation of the other.

As examples of the abhimihita circumflex, the commentator gives us precisely the same series of phrases as under rule 53 above, viz. tè 'vadan, tè 'kravan, sò 'bravît, yò 'sya dákshinah kárnah, sò 'rojyata. In a few cases (which are detailed below, in a marginal note*), our Atharvan manuscripts fail to give the circumflex to an e or o, originally acute, which has absorbed an unaccented a, and leave it acute; but these are evidently to be explained simply as perpetuating original errors of transcription, and as requiring at our hands the emendation which they have not received from the native copyists.

इकार्योः प्राक्षिष्टः ॥ ५६ ॥

56. The circumflex arising from the fusion of two short i's is praclishta.

Praclishta or praclesha is the name given by the Rik Pr. (ii. 7, r. 20, exxiv) to all those cases of combination in which two vowels, or a vowel and diphthong, are fused together into a single vowel or diphthong: that is to say, to those of which our treatise treats in the latter half of the preceding section (rules 42-51). A svarita accent arising in connection with such a combination is by all the other treatises called praglishta. The manuscript of our own treatise, both text and commentary, varies between the two forms praglishta and prakelishta, more often reading the latter; which, however, has seemed to me too anomatous, not to say too monstrous, a term to be permitted to stand. The Rik Pr. (iii. 8, r. 13, cc) informs us that a single teacher, Mandukeya, held that the maclishta svarita arose in all cases of a praclesha combination where the former element was acute and the latter grave, and it is well known that the Catapatha Brâhmana follows this rule of accentuation through-Pânini (viii. 2. 6) also permits it, whenever the unaccented latter element is the initial of a word—that is to say, everywhere in the combinations of the phrase. But the predilection of the Sanskrit for the circumflex accent is much too weak to allow of so frequent an occurrence of it as the general acceptance of this rule would condition, and all the Prâticâkhyas lend their authority to the usage prescribed in our rule 66 below, that a combination into which enters an udâtta vowel is itself udatta, the acute element raising the grave to its own pitch. All, however, allow the exception which forms the subject of the last rule,

^{*} The passages are x. 10. 10 (bis). xi. 3. 49; 10. 23. xii. 3. 58; 4. 35, 47 (here, however, I. gives so instead of so, and B. has been amended to the same reading). xv. 14. 3 (B. and P. apò). xvi. 4. 3. xviii. 4. 15. The edition has generally corrected the accentuation in these cases; but in three passages—viz. xi. 10. 23. xii. 3. 58. xviii. 4. 15—the erroneous reading of the manuscripts remains. Once, by a contrary error, the codices generally agree in giving the circumflex to a final o, while leaving the s unab-orbed after it: thus, ynjhò ajàyata (xiii. 1. 48), but I. and E. (the latter by emendation) give the consistent reading yajhò 'jàyata, which has been received into the edited text.

and all but the Taitt. Pr. allow also that which is treated of in this rule: if i and i, both short, are fused together into a long vowel, this vowel has the praglishta svarita: thus, i'. The illustrations cited by the commentator are abhi' 'hi manyo (iv. 32.3), bhindhi' 'dám (vii. 18.1), and diçî' táh (xi. 2.12 ctc.).* But the arising of the circumflex is expressly restricted to the case in which both the i's are short: if the former of the two is long, it is very natural that, as the more powerful element, it should assimilate the weaker grave vowel, and make the whole compound acute. Thus eni' iva becomes eni' 'va, not eni' 'va (v. 14. 11); mahi': ivám becomes mahi' 'yám (ix. 10.12), ctc. Such cases, especially of iva following an acute final i', are not uncommon. The cases in which a long unaccented i, on the other hand, is preceded by a short accented i, are exceedingly rare; there is but a single one in the whole Atharvan text, and it is cited by the commentator as a counter-example under the present rule, as follows: má' vaním má' vá'cam no ví' "risik (v. 7.6: p. vi: irtsih); he adds, paro dirghah: iha asmat praclishto na bhavati; 'the latter of the two i's is long: hence here the practishta accent does not arise.' We should, however, expect that in such a compound, especially, the circumflex would not fail to appear; for if, in the fusion of i and i, the grave accent of the second element is represented in the accentuation of the resulting long vowel, by so much the more should this be the case in the fusion of i+i, where the second element is the stronger. The teachings of accentual theory are so obvious and explicit upon this point that it is hardly possible to avoid the conclusion that the Hindu grammarians, in establishing their system, overlooked or disregarded the combination i+i, on account of its rarity, and that the accent of the cases later noted was made to conform to the rule, instead of the rule being amended to fit the cases. The Vaj. Pr. (iv. 133), indeed, makes a special exception of the word vi'kshita (p. vi-ikshita), allowing it the praglishta circumflex which all such compounds palpably ought to have: whether the text of the White Yajns contains any other examples of the class, besides the one cited under the general rule (iv. 132: hi' "m, from hi: im; the same passage is the only one given under the corresponding rule in the Rik Pr. [iii. 7, r. 12, excix]), Weber does not inform us. It is not easy to see any reason in the nature of things why a combination of two u's should not be subject to the same law of accent as that of two i's. This, however. is another very rare case; in the whole Atharvan not a single example occurs nor have I happened to meet with any in the Rig-Veda; that this is the reason why the Praticakhyas generally take no notice of any praglishta accent arising from such a combination is altogether probable. It is not a little remarkable, then, that the Taitt. Pr. takes no note of the fusion of two i's as giving rise to a svarita, but (x. 17) prescribes it for the case in which, by a practesha combination, û is formed, and applies (xx. 5) to this alone the name praclishta: the instances cited in

^{*} The other instances which the text affords are to be found at iii. 11. 2. v. 22. 7. vi. 92. 3; 123. 2; 126. 3. vii. 26. 7; 73. 7. xi. 3. 18. xii. 3. 34, 41. xv. 2. 3. xviii. 2. 41. xix. 44. 7.

[†] In the Atharvan, we have them at iv. 38. 6. v. 14. 11 (bis); 20. 11. vi. 6. 3. vii. 62. 1. ix. 2. 6; 4. 2; 10. 12. x. 1. 14, 32. xi. 5. 1. xiv. 2. 31, 44.

its commentary are sû' 'nnîyam iva, sû' 'dgâtâ', mâsû' 'ttishthan, and dikshû' 'padádhâti.

Our commentator discourses upon this rule at more than his usual length. After the citation of the examples and counter-example, with the remark upon the latter, which have already been given, he goes on as follows: att 'va yah: att 've 'ty att-iva: tâirovyañjana ity eshah: tkârah prâkçlishto yadâ syâd udâttah pûrvah paro 'nudâttah sa prâkçlishtah svaryata eva nityam sandhijam svaritam nâ 'nyad âhuh: divî 'va cakshuh: divî 'va jyotih: divî 've 'ti divi-iva; 'in the passage âtî 'va yâh (ii. 12. 6)—where the krama-text would read âtî 'vé 'ty âti-iva—the circumflex of the t is tâirovyañjana' (see rule 62, below). 'When an t is the result of praçlesha, the former element being acute and the latter grave, that result of praçlesha is always made circumflex. No other circumflex accent is declared to arise from the sandhi. Instances are divî 'va câkshuh (vii. 26. 7), divî 'va jyôtih (vi. 92. 3), where the krama-text reads divî 'vê 'ti divî-iva.' I am not quite sure that I have correctly interpreted all of this, but its significance is evidently of the smallest.

Precisely the same objection lies against the form of this rule as against that of the preceding: that, whereas it ought to be a definition and a prescription, it is in fact merely nomenclatory.

ग्रनुदात्तपूर्वात्संयोगायवातात्त्वरितं पर्मपूर्वं वा

ज्ञात्यः ॥५७॥

57. A circumflex which follows a conjunction of consonants ending with y or v and preceded by an unaccented vowel, or which has no predecessor, is the jatya.

The meaning of the term jatya is 'natural, original, primitive:' the circumflex syllables to which it is applied are those which have that accent in their own right and always, independently of the combinations of the sentence. The long, lumbering, and awkward account of it which the rule offers may be divided into two parts: that which is necessary to its distinction from the enclitic svarita, which, by rule 67 below, ordinarily follows any acute syllable, and that which is added to describe the kind of syllable in which it is invariably found to occur. The former part is contained in the words "preceded by an unaccented vowel, or having no predecessor," the enclitic circumflex being only possible as succeeding an acute. The other part is "after a conjunction of consonants ending with y or v:" that is to say, no syllable in Sanskrit has an independent circumflex accent except as it results from the conversion of an original accented i or ii (shortor long) into its corresponding semivowel y or v before a following dissimilar vowel; thus kanya' represents an earlier kani-a, svar an earlier su-ar, and the like. The jâtya svarita, then, precisely corresponds in origin and in quality with the kshaipra, the one next to be described, and differs from it only in period, arising in connection with the combination of syllables into words, rather than of words into a sentence.

The definition or description of the jatya circumflex given by our

treatise is after all imperfect, since it fails properly to distinguish the jâlya from the kshâipra. Such kshâipra accents as are instanced by abhyàrcata (vii. 82. 1), nv èténa (v. 6. 5), and the like, answer in every particular to the defined character of the jatya. The word pade, 'in an independent or uncombined word,' or something equivalent, needs to be added to the rule. Such a limitation is not omitted from the description of any of the other treatises. The Rik Pr. (iii. 4, r. 7, exciv) defines all the other kinds of svarita first, and describes this as the one which remains, and which occurs in an uncombined word; the Vaj. Pr. (i. 111) gives a definition nearly corresponding to our own, but much more concisely expressed, and omitting the specification corresponding to onr apûrvam va, 'or which has no predccessor,' which the commentator is therefore obliged to supply. Finally, the Tâitt. Pr. (xx. 2) agrees quite closely with our treatise in the form of its definition, only adding the item noticed above as omitted here; but it calls the accent nitya, 'constant, persistent,' instead of jâtya.

The commentator, after a simple repetition of the rule with the appendix of svaro bhavati to fill out its ellipsis, adds in illustration the same series of words which he has given us once before, under i. 17: they are, as instances of the jatya circumflex preceded by an unaccented vowel, amavasya, kanya, dhanyam, acaryah, and rajanyam; of the same in an initial or unpreceded syllable, nyan, kva, svah.

श्रनःस्थापत्तावुदात्तस्यानुदात्ते बैप्रः ॥ ५०॥

58. The circumflex arising upon the conversion into a semi-vowel of an acute vowel before a grave is the kshāipra.

The name kshaipra is given by the Rik Pr. (ii. 8) to the combinations taught in our rule 39, above, or to those in which i, î, u, û, and r become respectively y, v, and r before a following dissimilar vowel: the term comes from kshipra, 'quick, hasty,' and marks the sandhi as one in which there is a gain of time, or a hastened, abbreviated utterance of the semivocalized vowel. All the treatises (R. Pr. iii. 7; V. Pr. iv. 47; T. Pr. x. 16) teach that in such a case, when the former element of the compound is acute and the latter grave, the resulting syllable is circumflex; and all (R. Pr. iii. 10; V. Pr. i. 115; T. Pr. xx. 1) apply to the circumflex thus arising the name of the combination, kshāipra. Our own rule is this time free from the ambiguities which we have had occasion to notice in the definitions of the abhinihita and praclishta accents, and would admit of being interpreted as a precept as well as a definition, as follows: 'in the case of the conversion into a semivowel of an acute vowel before a grave, there arises the circumflex called kshâipra.'

The commentator cites two actual cases of the kshâipra circumflex, viz. abhyàrcata (vii. 82. 1: p. abhí: arcata) and vidvàngah (vi. 125. 1: p. vidú-angah), and fabricates two others, viz. mâtràrtham, pitràrtham (i. e. mâtr'-artham etc.).

म्रतःपदे जी पञ्चपयाम् ॥ ५१ ॥

59. And even in the interior of a word, in a strong case.

It may be questioned whether this rule is merely nomenclatory, or also prescriptive; whether its meaning is that the svarita which appears in the finals of the strong cases of certain words whose themes are oxytone is to be accounted as kshaipra and not jaiya, or that a circumflex of the kshaipra variety arises when the accented final vowel of a theme, in the strong cases, is converted into a semivowel before the case-ending. The same question comes up also in connection with the two following rules. But I presume that they are all to be understood as precepts, and to be reckoned along with the other cases in which our Prâtiçâkhya turns aside to meddle with matters lying without its proper sphere. Not one of the other treatises offers anything corresponding; they would all, apparently, class as jâtya the circumflex accents here treated of, not distinguishing them from the others which occur within the limits of a word, or in the uncombined text. rules, however, are not without some interest, as showing that the authors of our work appreciated the entire analogy which the circumflex accents with which they deal have with the ordinary kshaipra. Thus nadyàs is equivalent to nadí'as, as nadyàsti would be to nadí' asti. while nadyå'i, nadyå's represent nadî-â'i, nadî-â's; the terminations of the strong cases showing no trace of that tendency which is exhibited by the other case-endings to draw away upon themselves the accent of the final vowel of the theme: compare tudántam, tudántaû, tudántas, with tudata', tudatós, tudatás.

The commentator cites from the text, by way of illustration, nadyò nâ'ma stha (iii. 13.1), pippalyàh sám (vi. 109.2), and rudatyàh púrushe haté (xi. 9.14); and also, as counter-example, to show that the circumflex arises only in a strong case, táyû sahasraparnyà' hr'dayam (vi. 139.1). Instances of both kinds are of not infrequent occurrence. In a small number of cases—viz. karkaryáh (iv. 37.4), prdâkvám (x. 4.17), and viliptyám (xii. 4.41)—all the manuscripts give an acute accent to endings of the class to which the rule refers; these are, however, evident errors, and should properly have been amended in the edited text.

The commentator closes his exposition, as so often elsewhere, with a verse which is a virtual re-statement of the rule, but its form is so corrupt that I refrain from attempting to restore and translate it. 1

ऊकारस्य सर्वत्र ॥ ६०॥

60. Or also throughout the declension, if the final of the theme is \hat{u} .

¹ It reads: antodáttá nadí nyúyá hrasvanámi cat tathá: apañcapadyám vacanam udáttah ksháipra ucyate.

and vadhvàç ca vástram (xiv. 2. 41). The only other cases afforded hy the text are tanvàs (gen. or ahl.: e. g. ii. 29. 1), tanvàm (at i. 18. 3, and one or two doubtful places in the nineteenth book), and asûsvàs (x. 10. 23). But there are also sundry exceptions to be found in the Atharvan, which the commentator has not failed to notice and record; he says: tato pavadati, from this rule one must make the exceptions, urvárvá iva (vi. 14. 2), prdákváh (x. 4. 5), cvaçrvái (xiv. 2. 26), and cvaçrváh (xiv. 1. 44); to which is to he added vadhvái (xiv. 2. 9, 73). All these exceptional forms, it will be remarked, have a heavy ending, while of those which exhibit the circumflex accent the ending is light in every instance but one (tanvám). The words báhvós (e. g. vii. 56. 6) and ûrvós (xix. 60. 2) are instances—and, if my search has heen thorough, the only ones which the text presents—of like forms from themes in u, which are not to he regarded as contemplated by the rule.

श्रीपवीश्व ॥ ६१ ॥

61. Also in onyoh.

That is to say, in the single word onyoh the final syllable has a kshåipra svarita, though the form is a weak case, and not from a theme in û.
The commentator cites the passage onyoh kavikratum (vii. 14. 1), the
only one in which the word occurs. The Atharvan affords one other
like case, viz. kalyanya'i (vi. 107. 3), unless we are to assume there an
error of the tradition represented by our manuscripts, which seems to
me more likely.

व्यञ्जनव्यवेतस्तैरोव्यञ्जनः ॥ ६२॥

62. A circumflex between which and the preceding acute vowel consonants intervene, is the tâirovyanjana.

Literally, 'one separated by consonants is tairovyanjana.' There is here a notable change of subject and of implication. We have passed, without any warning, from considering the necessary or independent circumflex to treating of that which is enclitic only, arising, according to following rules (rules 67-70), in an unaccented syllable which is preceded hy an acute, and not again immediately followed by an acute or circumflex. Our treatise and the Rik Pr. (iii. 9, 10) subdivide the enclitic circumflex into two forms only, the tâirovyanjana, where the circumflexed syllable is separated from the acute by one or more consonants, and the pâdavrtta (the Rik Pr. calls it vâivrtta), where a hiatus intervenes. The Vâj. Pr. (i. 117, 119) and the Tâitt. Pr. (xx. 6, 7) also teach the same accents; but the former distinguishes under the tairovyanjana a sub-form, tâirovirâma ('having a pause between'), as occurring when the acute is parted from its enclitic circumflex not only hy consonants but by the avagraha, or pause which separates the two parts of a compound word: thus, in prajar-vat, for instance, the enclitic accent of vat would be the tairovirama, while in pra-ja'nam that of nam

would be the tâirovyañjana simply. The tâirovirâma, then, cau occur only in the pada-text. The Tâitt. Pr. takes no notice of this pada accent, but allows the name tâirovyañjana only to a circumflex which follows an acute in the same word: if the acute syllable is a final, and the circumflex an initial, the latter is to be denominated prâtihata (xx. 3): thus, in tâtra, the enclitic svarita of tra would be tâirovyañjana; in tât te, that of te would be prâtihata.* The practical importance of these numerous and varying subdivisions of an enclitic accent must be, as we cannot but think, very insignificant.

The commentator's examples of the tâirovyañjana accent are idâm devâh (ii. 12. 2) and idâm indra (ii. 12. 3): it is, in both instances, the initial syllable of the second word which is made circumflex by the influence of the preceding acute. According to the Tâitt. Pr., both

would be cases of prâtikata.

विवृत्तौ पादवृत्तः ॥ ६३ ॥

63. Where there is a hiatus, the circumflex is pâdavrtta.

As was noticed in the last note, the Rik Pr. calls this accent vaivṛṭṭa, 'arising in connection with a hiatus.' The term pādavṛṭṭa is evidently a mutilated substitute for pādavivṛṭṭa or pādavāivṛṭṭa, 'arising in connection with a hiatus between two words.'†

The commentator illustrates from the Atharvan text with $y\dot{a}'h$ $krty\dot{a}'$ angirasi'r $y\dot{a}'h$ $krty\dot{a}'$ asuri'r $y\dot{a}'h$ $krty\dot{a}'h$ svayamkrta $y\dot{a}'$ u ca $ny\acute{e}bhir$ a'bhrtah (viii. 5. 9): here are three cases of the padavrtta circumflex, viz. in the syllables ang and as, following the first and second occurrence of $krty\dot{a}'$, and in the particle u, following the last $y\dot{a}'$.

ग्रवग्रके सविधः॥ ६४॥

64. Where there is a division between the two parts of a compound word, the accent is of the same character.

This rule is far from possessing all the explicitness that could be desired; two or three different interpretations of it seem admissible. In the first place, it may be understood to apply only to a class of cases falling under the preceding rule, the implication of vivṛttâu being continued; it would mean, then, that when in the division of a compound word a hiatus is made between the acute final of the former member and the grave initial of the latter member, the enclitic circumflex accent of the latter is to be ranked as a pâdavṛtta, just as if the hiatus caused by the avagraha had been due to the operation of the ordinary rules of euphony. This interpretation is supported by the character of the citations made by the commentator to illustrate the rule; they are as follows: ukshá-annâya: vaṣá-annâya (iii. 21. 6), yajnā-ṛtaḥ (viii. 10.

^{*} Roth (preface to his Nirukta, p. lxv) and Weber (p. 135) regard the tairovirana and pratihata as identical, but I do not see how this is possible.

[†] The definition of the Taitt. Pr. (xx. 6) brings out this derivation more distinctly than our own; we read there padavivittyam padavittah.

4),* çatá-odaná (e. g. x. 9. 1), çatá-âyushá (iii. 11. 3, 4), and dîrghá--dyushâ and dîrghâ-âyushah (not to be found in AV.: we have, however, the nominative dirghá-âyuh, at xiv. 2. 2, 63): in all these compounds, the enclitic svarita of the vowel following the sign of division is pâdavrtta. But the rule as thus interpreted seems of very little use, since such cases might be regarded as falling under the preceding rule without any special direction to that effect. The commentator does not include the word vivrttau in his paraphrase, and the fact that his citations are all of one class is far from conclusive against the intended comprehension of the other classes also under the same precept. the implication of vivrttâu be rejected, and avagrahe be taken to mean 'in any case of the separation of the two parts of a compound,' whether accompanied by a hiatus or not, there will, however, still remain a question as to the signification of savidhah, 'of the same character.' Does it refer only to pâdavrttah, and shall we assume that the enclific circumflex of an initial syllable after a pause of separation, or avagraha, is always to be reckoned as pådavrtta, the pause having the same effect in all cases as a hiatus—so that in catá-vrshnyam (i. 3. 1 etc.), sám-crutam (i. 3. 6), &'-bhrtah (i. 6. 4), and the like, the syllables vr, cru, and bhr wonld be pâdavrtta? Or does it refer also to tâirovyanjana, and shall we understand that, notwithstanding an avagraha, the accent of a following syllable remains just what it would be were there no such pause; a hiatns conditioning a pâdavrtta, and the intervention of consonants (as in the examples last quoted) a tâirovyañjana? Of these three possible interpretations, I am inclined to favor the last; and especially, as it is supported by the authority of the Rik Pr., which lays down the general principle (iii. 15, r. 23, ccx) that where syllables are separated by avagraha, their accentuation is the same as if they were connected with one another according to the rules of sandhi.

श्रभिनिक्तिप्राक्षिष्ठज्ञात्यज्ञैप्राणामुदात्तस्विरितोद्यानाम-णुमात्रा निघाता विकस्पितं तत्कवयो वद्ति ॥ ६५ ॥

65. Of the abhinihita, prâçlishṭa, jâtya, and kshâipra accents, when followed by an acute or a circumflex, a quarter-mora is depressed: this the wise call vikampita.

The reason of this rule cannot be made evident without a somewhat detailed exposition of the laws laid down by the Hindu grammarians as regulating the rise and fall of the voice in connection with the consecution of the accents. In the first chapter (i. 14-17) we had merely a brief definition of the three tones of voice in which a syllable may be uttered: the low or grave (anudâtta), belonging to unaccented syllables, the high or acute (udâtta), which is the proper tone of an accented syllable, and the circumflex (svarita), combining a higher and a lower

^{*} The pada manuscript reads yajña-r'tak, but such an accentuation is contrary to all analogy, and would in itself be in a high degree suspicious; and it is fully convicted of falsity by the citation of the word as an instance under this rule.

pitch within the limits of the same syllable, and, as we have seen, always resulting, as an independent accent, from the fusion of two originally separate elements, of which the one was acute and the other grave. If this were the whole story, the subject of accent in Sanskrit would be of no more intricacy and difficulty than in Greek: nor even of so much. since in Sanskrit neither of the accents is restricted as regards the place which it may occupy in the word; and we should only have to note and learn upon which syllable, and with which accent, each word in the language was uttered, and what were the few simple rules which govern the combinations of accented and unaccented syllables in the phrase. A great complication, however, is introduced into the system, in the first place, by the rule, taught by all the Hindu authorities (see our rule 67, below), that an originally grave syllable, when it follows an acute, receives an enclitic circumflex: that is to say, that the voice, when once raised to the pitch of acute, does not ordinarily come down with a leap to the level of the grave, but makes its descent in the course of the next following syllable; or, to illustrate by an instance, that we do not say a.mit trân, but a.mit trân, * To this rule is made the important exception (rule 70, below), that the syllable which would otherwise receive the enclitic circumflex maintains its character of grave, in case an acute or circumflex comes next after it: the theory being, apparently, that the voice prepares itself for rising to the acute pitch by sinking before it: it must, if possible, mount from the station of a syllable wholly grave. Thus we have, as the mode of atterance of amitran pari and amitrân kvà, a mit trân npari, a mit trân nkva. Now comes the farther complication, in which all the Prâtiçakhyas agree (see rule 71, below), that the unaccented syllables which follow a circumflex, although regarded as having the value of grave, are yet pronounced at the pitch of acute: that is to say, that, in pronouncing prshadajyapranuttanam, we sav preshadaj yap pra nut ta nam, and not preshadaj yap pra nut ta nam. This grave accent with the tone of acute is in the Rik Pr. (iii. 11) and Taitt. Pr. (xxi. 10) called the pracaya (the word means 'accumulation'): its theoretical ground I find it exceedingly difficult to discover. But it evidently stands in close relation—whether as cause or as effect, I would not attempt to say too confidently—with a somewhat different description of the character of the circumflex. The first portion of the latter accent, namely, is by the Rik Pr. (iii. 2, 3) declared to be nttered, not at acute pitch, but with a yet higher tone, and its later portion at acute pitch. The Taitt. Pr. (i. 41-42) gives the same account of a circumflex that immediately follows an acute, although, as we have seen (in the note to i. 17), liberally citing the discordant opinions of other anthorities. These two treatises, then, would require our pronunciation to be

pṛ sha dôj yap pra nut tá nâm. Neither our own work nor the Vâj. Pr. gives such a definition of the circumflex; and yet the theory of the

^{*} In writing these instances, I follow the rules for the division of the syllables given in the first chapter (i. 55-58); and also, in order not to misrepresent them, I make the duplications of the varnakrama (iii. 25-32), but omit any attempt to designate abhinidhana, yama, etc.

pracaya accent, to my apprehension, so manifestly recognizes and implies it, that I cannot believe otherwise than that its statement is omitted by them, and that it really forms a part of their system. If the voice has already, in the utterance of the enclitic svarita, sunk to the actual grave pitch, it can scarcely be believed that it should be called upon to rise again to the level of acute for the utterance of the following unaccented syllables: while, on the other hand, if the circumflex be removed bodily to a higher place in the scale, and made to end at acute pitch. the following grave syllables might naturally enough be supposed to run on at the same level. Hence I regard the form of the word last given as representing the mode of its pronunciation which must be assumed to be taught by the theory of our treatise, as well as by that of the others. If, now, the grave syllables succeeding a circumflex are uttered at acute pitch, how shall an actual acute, occurring after them, be distinguished from them? Provision for this case is made in the rule, common to all the treatises (see our rule 74, below), that the grave which next precedes an acute or circumflex is not of acute tone, but remains grave. Thus, putting an acute syllable after the word which has been employed in illustrating the pracaya accent, we should have prsha-

dâjyapranuttânâm mâ' pronounced as presha dôj yap Pranut tâ nâm mâ. Thus is assured to the voice a low syllable from which to rise to the following acute, just as where the enclitic svarita, before an acute or circumflex, was given up for a grave pronnnciation. Analogous with these two cases is that which forms the subject of the rule at present under discussion. It is constantly happening that an acute syllable follows one which has an independent circumflex, which cannot, of course, like the enclitic, be converted to grave out of complaisance to its successor. If, however, it were left unaltered, the distinction of the following acute from a pracaya anudâtta would be endangered. If yè 'syâ'm sthâ pra-

tử cyâm diçi should be nttered yes syâms thap pra tic yâm di i, it might be understood as yè 'syâm stha pra etc.; while the sinking of the cir-

cumflex syllable yè to the level of the anudâtta pitch—as yessâm etc.—would mark the following syllable as truly udâtta or acnte. But that the avoidance of such ambiguities was the sole, or even the principal, reason for the depression of tone taught in the rule is rendered improbable by the fact that the same is prescribed also before an independent svarita, which latter could not, even without any alteration of tone in the preceding syllable, be confounded with an enclitic svarita or with any other accent. The depression is more probably owing to the theoretical requirement that the voice should, when possible, always rise to the utterance of a real acute or circumflex from the lowest or anudâtta pitch: which is satisfied by the retention of the anudâtta quality before an udâtta or svarita in a syllable which would otherwise become enclitic svarita or pracaya anudâttu, and by the lowering of the final portion of an independent svarita in the same position.

The equivalent rule of the Rik Pr. (iii. 3, r. 5, excii) is given in connection with the first definition of the svarita accent: this is to be of the pitch of udatta in its latter portion, unless an udatta or svarita fol-

lows, in which case it is anudâtta. The commentary informs us that the depression to anudâtta pitch is called kampa, a term connected with the vikampita of our rule (both come from the root kamp, 'to tremble'). An interpolated verse at the end of the third chapter of the Rik Pr. (iii. 19) restates the same precept, in terms closely corresponding with those of our treatise. The Vâj. Pr. (iv. 137) says, in like manner, that before an udâtta or svarita the latter portion of a svarita is farther depressed. It is upon the authority of the Vâj. Pr. (i. 60) that the term anumâtrâ, literally 'minute measure,' used in our text, is interpreted to signify the definite quantity of a quarter-mora. The same phenomenon of kampa is treated in the Tâitt. Pr. (xix. 3 etc.), but with peculiar complications of theory which it is not necessary to explain here.

The commentator offers instances of each of the kinds of circumflex mentioned in the rule; they are as follows: of the abkinihita, yō 'bhiyātāh (xi. 2. 13), yè 'syâ'm (iii. 26. 1 etc.), so 'rtham (the Atharvan contains no such phrase, nor can it be a genuine instance, as artha has the acute on the first syllable, and the accentuation of the two words combined would be sō 'rtham; it is altogether probable that the reading is corrupt, and that the phrase intended to be cited is sō 'bhvàm [xiii. 4. 25]: this is the nearest approach to the other which our text furnishes, and is moreover an instance of a circumflex before a circumflex, which the commentator would be likely to seek); of the prâçlishta, bhindhi' 'dám (vii. 18. 1), diçî 'táh (xi. 2. 12 etc.); of the jâtya, amāvāsyā' svāh (these two words do not occur in juxtaposition in the Atharvan: we have amāvāsyā' mā'm at vii. 79. 2, and e. g. svār nā at ii. 5. 4); and of the kshāipra, nadyò nā'ma stha (iii. 13. 1), pippalyāh sām (vi. 109. 2), and rudatyāh pūrushe haté (xi. 9. 14): they are to be pronounced

ru'dat. tyan puru'she hate, bhin dkidam, yobhi yatah, etc.

Whether the Hindu grammar is much the gainer by this intense elaboration of the accentual theory may fairly be questioned: whether, indeed, it has not lost more than it has gained by the exaggeration, and even the distortion, in more than one particular, of the natural inflections of the voice. To me, I must acknowledge, it seems clear that those ancient grammarians might better have contented themselves with pointing out in each word the principal accent and its character, leaving the proclitic and enclitic accents, the claimed involuntary accompaniments of the other, to take care of themselves; or, if they could not leave them unnoticed, at least stating them in a brief and general way, as matters of nice phonetic theory, without placing them on a level with the independent accents, and drawing out a complete scheme of rules for their occurrence. The obscurity and false proportion given by them to the subject of the Sanskrit accent has availed to confuse or mislead many of its modern investigators: and we find, for instance. our modern Sanskrit grammarians explaining the independent circumflex as originated by the fusion of an acute with an enclitic circumflex. in which fusion the former accent gives way to the latter, the substance to its own shadow! The Prâtiçakhyas, it will be noticed, countenance no such explanation, but describe the real circumflex as arising from the combination of an acute with a following grave element.

The designation of the accents in the Atharvan mannscripts is somewhat various, and requires a brief explanation. The Rik method of designation is now familiar to all students of the Vedic department of the Sanskrit literature, and is perfectly adapted to the theory of the accent as above set forth; all syllables uttered at grave or anudatta pitch have a horizontal mark below them: a svarita or circumflex syllable, whether its circumflex be independent or enclitic, has a perpendicular stroke above; all syllables spoken with acnte or udatta tone are left unmarked, whether they be proper udatta or accented syllables, or only pracita anudatta, grave in value but acute in pitch. An example is the verse (xi. 10. 19) from which some of the illustrations given above have been drawu:

त्रिषंन्धे तर्ममा वमुमित्रान्यरि वार्य।

trishandhe támasá tvám amítrán pári váraya,

पृषद्ा त्यप्रं णुत्तानां मामीषां मोचि कश्चन ॥

pṛshadājyāpraņuttānām mā' 'mî'shām moci káç caná.

The agreement between theory and method of designation here is, indeed, so close as reasonably to awaken suspicion whether the latter may not have exercised some influence npon the former. This mode of marking the accented syllables, now, has been adopted in the edited text of the Atharvan, although not followed throughout by a single one of our Atharvan manuscripts. In these, the circumflex, whether independent or enclitic, which follows an acute is usually marked within the syllable itself, sometimes by a dot, sometimes by a horizontal line; the independent circumflex after a grave, generally by an oblique line drawn upward and across the syllable, but often by a convex line below it. The grave syllable is marked as in the Rik, or, quite as often, by a dot instead of a horizontal line below. The different methods are interchanged in several cases within the limits of a single manuscript, and as some of their features are incapable of being represented in printing without complete suits of type prepared expressly for the purpose, no one can call in question the right of the editors to substitute the Rik method.* But there is one other case, namely that which forms the subject of the rule to which this note is attached, which gives trouble in the designation. A svarita immediately preceding an udatta cannot receive simply the usual svarita sign, lest the following syllable be deemed a pracaya instead of udâtta. The method followed in such a case by the Rik is to append to the circumflexed vowel a figure 1 or 3 -1 if the vowel be short, 3 if it be long—and to attach to this figure

^{*} Lesser and occasional peculiarities of the manuscript usages are passed over without actice: it may be farther remarked, however, that E., throughout a great part of its text, marks the acute syllables with the perpendicular line above, in addition to all the other usual signs of accent. The peculiar searita signs of the White Yajus (see Weber, p. 138) nowhere appear.

the signs both of svarita and of anudâtta. Instances, in part from the examples already given, are:

दिशिहितः। नयो है नामं। रूद्त्य है: पुरुषि।

dicî 'táḥ nadyò nâ'ma rudatyàḥ púrushe

देख्यु हैपसं:। धमी है जभी न्धे। भागो हैप्स्त्र हेतः।

devy' ushásaḥ gharmò 'bhî' 'ndhe bhâgò 'psv àntáḥ
(x. 8. 30), (xi. 3. 18), (x. 5. 15).

What is the reason of this style of writing the vikampita syllable, we are left to find out for ourselves; the Praticakhyas teach as only the modes of atterance. In seeking to explain it, we may first note the method pursued in the text of the Sama-Veda, which is always to protract the vowel of the syllable, lengthening it if short, and adding the usual sign of protraction or pluti, the figure 3. This suggests to us, as not wanting in plausibility, the conjecture that the two Rik signs have a similar meaning, and are marks of protraction, the 1 indicating the mora or part of a mora by which the short vowel is regarded as increased, and the 3 the protracted or pluta value, to or toward which the long vowel is raised in pronunciation; the cause of the prolongation lying in the necessity of carrying the vowels concerned to a lower pitch of voice, which leads to an extension of their quantity-even though the theory of the Prâticakhyas known to us does not recognize any such extension. The attachment to the figure of the signs of both svarita and anudatta tone of course denotes that the syllable, although circumflex in its general character, descends, unlike the other circumflex syllables, to the full level of anudatta pitch, indicated by the lower horizontal mark. This Rik method of notation of vikampita syllables has also been followed in the published Atharvan text, along with the rest of the system to which it belongs. As to the Atharvan manuscripts, they are not infrequently careless enough to omit the figure altogether, and when they write it, it is in almost all cases a 3, whether the vowel to which it is appended be long or short.* In about twenty passages,† they follow the method of the Sama-Veda, and prolong the vowel of the syllable: this has, however, been restored to its short form in the edition, except in three instances (x. 1. 9. xiii, 1. 15; 3. 16). It will, I presume, be generally acknowledged that, in this condition of the manuscript authorities, the editors followed the safest course in accepting and carrying out consistently the Rik method of designation of the class of cases under discussion.

^{*} In the second half of the text, or in books x-xx, I have noted but a single passage where all the MSS read 1 after a sbort vowel, and but three others in which that figure is given by more than a single authority: its occurrence is in general entirely sporadic; it occasionally appears also, in place of 3, after a long vowel.

† The details are as follows: all lengthen the vowel at vi. 109. 1. x. 1. 9. xii. 4. 4;

[†] The details are as follows: all lengthen the vowel at vi. 109. 1. x. 1. 9. xii. 4. 4; 5. 21. xiii. 1. 15; 3. 16. xix. 44. 8; one or more make the same prolongation at ii. 13. 5; 33. 5. vi. 97. 1; 109. 2; 120. 3. viii. 4. 18. x. 8. 30. xii. 5. 53, xvi. 6. 5. xviii. 1. 3; 2. 24. xix. 3. 2.

रकादेश उदात्तेनोदात्तः ॥ ६६॥

66. A vowel produced by combination with an acute is itself acute.

That is to say, when two simple vowels, or a vowel and a diphthong, coalesce and form a single vowel or diphthong (hy rnles 42-53, ahove), in case either of the two was acute, the resulting syllable is acute. The rule is a general one, and suffers only the two exceptions which form the subject of rules 55 and 56, above: namely, that \dot{e} and \dot{o} , when they absorb a following a, become \dot{e} and \dot{o} , and that i+i become i. The corresponding rules of the other treatises are Rik Pr. iii. 6 (r. 10, exervii),

Vâj. Pr. iv. 131, and Tâitt. Pr. x. 10 and xii. 10.

The series of passages given by the commentator in illustration of the rule is the same which was furnished under rule 38, above: viz. dhiyé "'hi (dhiyâ': â': ihi), jushasvé "'ndra (jushasva: â': indra), stanayitnúné "'hi (stanayitnúnâ: â': ihi), kúshthé "'hi (kúshtha: â': ihi), udakéné "'hi (udakéna: â': ihi), and áva paçyaté "'ta (áva: paçyata: á': ita). The instances are ill chosen, so far as regards variety of comhination; hut they illustrate sufficiently the fact that, whether the acute element is the former or the latter of the two comhined, the accent of the result of fusion is alike acute. It might have heen well to offer also examples of the extreme cases in which a final acute á assimilates and renders acute a following diphthong, such as catâ'udanâ (catâ-odanâ: e.g. x. 9. 1) and ihâ'i 'vá (ihá: evá: e.g. i. 1. 3): such combinations with âi and âu the text does not contain.

The other treatises give the rule (R. Pr. iii. 6, r. 11, exeviii; V. Pr. iv. 130; T. Pr. x. 12) that when a circumflex is combined with a following grave, the result of the combination is circumflex. A like rule is needed here also, in order to determine the accentuation of such cases as tanvâ' 'ntâriksham (xvii. 13: tanvâ': antâriksham), pathyè 'va (xviii. 3. 39: pathyâ'-iva), etc., and its omission must be regarded as an oversight.

उदात्ताद्नुदात्तं स्वर्धते ॥ ६७॥

67. A grave syllable following an acute is circumflexed.

This is the rule prescribing the enclitic svarita, the position of which in the accentual system has heen sufficiently explained in the last note but one. It is, as we have seen above (rules 62, 63), subdivided into the two kinds called tâirovyañjana and pâdavrtta, according as one or more consonants, or only a hiatus, intervene between the acute vowel and its successor. The commentator gives here only the two instances of the tâirovyañjana which he had already cited under rule 62.

The corresponding rules of the other treatises are Rik Pr. iii. 9 (r. 16,

cciii), Vâj. Pr. iv. 134, and Tâitt. Pr. xiv. 29, 30.

व्यासे अपि समानपदे ॥ ६८॥

68. And even in the disjoined text, within the limits of the same word.

The term vyasa, excepting here and in rule 72, is not met with anywhere in the Hindu grammatical language. Our commentator, according to his usual custom, spares himself the trouble of giving any explanation of it, or even of replacing it in his paraphrases by a less unusual synonym. The instances adduced, however, in illustration of the rules, and the general requirements of the sense, show clearly that it means the disjoined or pada text. By their adhikara (ii. 1), all rules in the second and third chapters should apply only to the sanhita, or combined text; hence it must here be specifically taught that in pada, as well as in sanhitâ, the syllable following an acute is enclitically circumflex, if the latter be in the same word with the former, and so not separated from it by a pause or avasana. The examples given under the rule are ayútam (e. g. viii. 2. 21), amrtam (e. g. i. 4. 4), and antáriksham (e. g. ii. 12. 1); in these words, the syllables tam, tam, and rik have the tairovyanjana variety of the enclitic circumflex, and they are accordingly written अयुर्तम् । अमृतम् । अन्तर्शिचम्, and not अयुर्तम् । अमृतम् । म्रन्ति चम्.

A corresponding rule is to be found in the Rik Pr. at iii. 4 (r. 6, exciii).

म्रवग्रहे च ॥ ६१ ॥

69. As well as where there is a separation of a compound into its constituents.

That is to say: although, in the pada-text, the pause which separates each independent word from the one following it breaks the continuity of accentual influence, so that a final acute of the one does not render circumflex the initial grave of the other, yet the lesser pause of the avagraha, which holds apart the two members of a compound word, causes no such interruption; on the contrary, an acute at the end of the former member calls forth the circumflexed utterance in the first syllable of the latter member. The commentator offers us rather a monotonous series of illustrations, namely sú-saṃṣiluḥ (vi. 105.2), sú-yataḥ (vi. 111.1), sú-ṣṛlam (vii. 72.3), sú-dṛḍḥam (x. 2.3), sú-bhṛlam (e.g. vi. 39.1), and sú-hulam (e.g. vi. 71.1): these are to be pronounced and written सुड संश्चित:। सुड यत: etc., and not सुड संश्चित:। सुड यत: etc.

The Rik Pr. (iii. 15, r. 23, cex) and Vaj. Pr. (i. 148) lay down the principle that avagraha makes no difference in the accentuation of the syllables which it separates; both, also (R. Pr. iii. 16, V. Pr. i. 148), except the rare cases in which each of the parts of a compound has an acute accent; such as arc, in the Atharvan, pári-dhâtavâ'i (ii. 13. 2) and tânû-nâpât (v. 27. 1). In such words as the latter, the Vaj. Pr. (i. 120) calls the circumflex of the syllable preceding the pause by a special name, tâthâbhâvya.

नोदात्तस्वरितपरम् ॥७०॥

70. Not, however, when an acute or circumflex syllable succeeds.

The corresponding rules of the other treatises are Rik Pr. iii. 9 (r. 16, ceiii, last part), Vâj. Pr. iv. 135, and Tâitt. Pr. xiv. 31. Cases of occurrence of the accent called by the Vâj. Pr. tâthâbhâvya (as noticed under the last rule) constitute in the other systems an exception, which is apparently not admitted by the school to which our Prâtiçâkhya belongs.

स्वरितादनुदात्त उदात्तश्रुतिः ॥७१॥

71. A grave following a circumffex has the tone of acute.

The position and relations of this rule in the accentual system have been sufficiently treated of in the note to rule 65. All the other treatises (R. Pr. iii. 11, r. 18, cev; V. Pr. iv. 138, 139; T. Pr. xxi. 10) lay down the same principle, stating also distinctly what must be regarded as implied in our precept, that not only the single grave syllable which immediately follows the circumflex receives the acute utterance, but those also which may succeed it, until, by rule 74, the proximity of an acute or circumflex causes the voice to sink to the proper anudâtta tone. The Rik Pr. and Taitt. Pr. use the term pracaya, 'accumulation, indefinitely extended number or series,' in describing this accent, the latter employing it in its ordinary sense, the former giving it as the name of the accent.

The commentator cites from the text, as instances, dévîr dvâro bṛhatir viçvaminvâh (v. 12. 5), and mâ'dhvî dhartârâ vidathasya satpatî (vii. 73. 4): each passage presents a whole pracaya, or accumulated series, of syllables having the accent prescribed by the rule. Such syllables are, as has been already pointed out, left unmarked with signs of accentuation in the written texts, like the proper acute syllables whose tone they share: thus, देवीदार बहुतीविड्यामन्याः.

Next follow two rules, identical in form with rules 68 and 69 above, and, like them, prescribing the application of this principle in the padatext also. They are covered by the same rules of the other treatises which have already been cited.

व्यासे जपि समानपदे ॥७२॥

72. And even in the disjoined text, within the limits of the same word.

That is to say, in pada as well as in sanhitá, those unaccented syllables which follow in the same word a circumflex, whether independent or enclitic, are uttered at the pitch of acute; and they are correspondingly marked in the written texts. The commentator's examples are uru gŵlâyâḥ (v. 13. 8) and kakâ'tikâm (x. 2. 8): these are uttered and written उत्तर मूलाया: । ककारिकाम, and not उत्तर मूलाया: । ककारिकाम,

म्रवयहे च ॥ ७३ ॥

73. As well as where there is a separation of a compound into its constituents.

That is to say, again, the avagraha, or pause of division, does not interfere with the influence of a circumflex, any more than (by rule 69) with that of an acute, upon the following unaccented syllables. The commentator gives us the examples gvan-vatih (xi. 9. 15), svah-vati (xviii. 1. 20), and agman-vati (xii. 2. 26), which we are to read and write प्रवान बतारे । स्वः बतारे । स्वः बतारे । अप्रवान बतारे । स्वः बतारे । स्वः बतारे । अप्रवान बतारे । स्वः बतारे । स्वः बतारे । अप्रवान बतारे । स्वः बतारे । स्वः बतारे । अप्रवान बतारे । स्वः बतारे । अप्रवान बतारे । स्वः बता

स्वरितोदात्ते जनतर्मनुदात्तम् ॥७४॥

74. But the syllable immediately preceding a circumflex or acute is grave.

This rule applies only to those originally anudatta syllables which would otherwise, under the action of rule 71, be spoken with the udatta tone, as following a svarita. It is, as has been already pointed out, closely analogous in character with rules 65 and 70, above, and has a like theoretic ground. The commentator illustrates it by citing the passages ojás tád dadrze kvà (x. 8. 41), idám deváh crnuta yé (ii. 12. 2), and idám indra crnuhi somapa yát (ii. 12. 3), where the syllables cek, ta, and pa—which, though properly unaccented, would be pronounced at acute pitch, like their predecessors, by rule 71—are depressed to the level of grave, in preparation for the succeeding circumflex or acute. We write, accordingly, antic can be succeeding circumflex or acute.

This rule is common to all the systems: compare Rik Pr. iii. 12 (r. 20, cevii), Vaj. Pr. iv. 140, and Taitt. Pr. xxi. 11.

As, at the beginning of this section, the commentator gave us an introduction to it, composed mainly of citations from unnamed sources, so here, at the end, he appends a postscript, chiefly made up of the dicta, upon points connected with accentuation, of authorities to whom

he refers by name. He first says: asvarani vyanjanani svaravanti 'ty anyatareyah; 'the consonants are destitute of accent: "they are accented," says Anyatareya.' Upon this point our treatise nowhere distinctly declares itself, but, as already noticed (under i. 55), its rules of syllabication may be naturally interpreted as implying that the consonant which is assigned to a particular syllable shares in the accentnation of its vowel. The Vai. Pr. (i. 107) states this explicitly. have: kim samdheh svaritam bhavati: pûrvarûpam ity anyatareyah: uttararûpam çânkhamitrih; 'what part of a combination is circumflexed (or accented)? "the former constituent," says Anyatareya; "the latter constituent," says Cankhamitri.' In the absence of any illustrations. I am at a loss to see to what kind of combinations this question and its answers are to be understood as applying. Next follows a passage which we have had once before, in the commentary on i. 93 (see the note to that rule); it reads here as follows: kim aksharasya svaryamanasya svaryate: ardham hrasvasya pado dirghasye'ty eke sarvam iti çânkhamitrir aksharasyâi 'shâ vidhâ na vidyate: yad yad viçvarîbhava. A renewed consideration affords me no new light upon this passage. Finally, we read rgardharcapadântanâvagrahavivrttishu mâtrâkâlakâlah, which appears to me to have to do with the determination of the length of the different pauses occurring in the recitation of the Veda; namely, the panses at the end of a half-verse, between two words in the padatext, between two parts of a divisible compound (also in pada-text), and where a hiatus occurs in sanhita; but I have not succeeded in restoring any intelligible and consistent reading of the passage. The Vâj. Pr. (v. 1) and Rik Pr. (i. 6, r. 28, xxix) declare the pause of division of a compound, or the avagraha, to have the length of a mora; the Taitt. Pr. (xxii. 13) recognizes four pauses (virama): that at the end of a verse, that at the end of a pada or disjoined word, that of a hiatus, and that of a hiatus within a word (as praugam), declaring them to have respectively the length of three moras, two moras, one mora, and a half-mora.

The signature of the pada or section is triliyasya triliyah padah.

ऋवर्णरेफषकारेभ्यः समानपदे नो णः॥७५॥

75. After r and \hat{r} , r, and sh, within the limits of the same word, n is changed to n.

This rule is an adhikara, or heading, indicating the subject of the section, and making known what is to be implied in the following rules. It might properly, then, have been left by the commentator without illustration, like ii. 1. He prefers, however, to cite from the text the passages pari strnthi pari dhehi vedim (vii. 99. 1) and paristaranam id dhavih (ix. 6. 2), which offer instances of the lingualization of the nasal; and he also adds koshanam and toshanam, which are not Atharvan words. As counter-examples, to show that the nasal is converted only if the preceding cerebral is found within the same word, he gives svar nayati, pratar nayati, which are also fabricated cases; compare the similar ones in the scholia to Pân. viii. 4. 1.

The Rik Pr. introduces the same subject with a precept (v. 20, r. 40, ccclvii) which also includes our next rule and a part of 89 below. The leading rules of the Vaj. Pr. (iii. 83) and Taitt. Pr. (xiii. 6) are in close agreement with ours.

पूर्वपदाद्रुघणादीनाम् ॥०६॥

76. In drughana etc., the same effect takes place after a cause which is contained in the former member of a compound.

The commentator paraphrases pûrvapadût by the expression which, for the sake of clearness, has been substituted for it in translating, viz. pûrvapadasthân nimittât. His cited illustrations are drughanah (vii. 28.1: p. dru-ghanah), sútâ grâmanyah (iii. 5.7: p. grâma-nyah), rakshohanam vâjinam (viii. 3.1: p. rakshah-hanam), brhaspatipranuttânâm (viii. 8.19: p. brhaspati-pranuttânâm), prshadâjyapranuttânâm (xi. 10.19: p. prshadâjya-pranuttânâm), and durnihitâishinîm (xi. 9.15: p. durnihita-eshinîm). The latter case, we should think, is one of somewhat ambiguous quality, since in the form of the word, as given by the pada-text, there is nothing to show that dur stands in the relation of pûrvapada, or former member of a compound, to nihita, they being unseparated by avagraha. The same objection lies against the two preceding instances; but also the much more serious one that they are examples properly belonging under rule 79, below, the converted n being that of a root after a preposition.

The other examples of the action of this rule afforded by the Atharvan text are parâyana (e. g. i. 34. 3: p. parû-ayana), vrshâyamâna (ii. 5.7: p. vṛsha-yamana; the uttarapada is here a suffix of derivative conjugation), paripana (e. g. ii. 17. 7: p. pari-pana), vrtrahanam etc. (e. g. iv. 28. 3: p. vrtra-hanam), durnaça (v. 11. 6: p. duh-naça), trinâman (vi. 74. 3: p. tri-nâman), purunâman (vi. 99. 1: p. puru-nâman), urûnasa (xviii. 2. 13: p. uru-nasa), and sahasranîtha (xviii. 2. 18: p. sahasra-nîtha). We have also a few cases of a class analogous with the last one given by the commentator, where the principle is precisely the same, although, in the actual division of the words, the avagraha falls elsewhere than between the converting lingual and the nasal: they are suprapâna (iv. 21. 7: p. su-prapâna; our pada-manuscript, to be sure, reads here, but doubtless only by an error of the copyist, su-prapana), suprâyana (v. 12.5: p. su-prâyana), and anuprayâna (vii. 73.6: p. anu--prayana). Some other words, which would otherwise have to be noted under this rule, are made the subject of special precepts later in the section (rules 82-85).

The general rule of the Rik Pr., as already noticed, includes this of ours as well as the preceding. By the Vaj. Pr. and Taitt. Pr., the cases are stated in detail.

म्रकारालादङ्गः ॥ ७७ ॥

77. The n of ahan is changed after a former member of a compound ending in a.

Panini's rule, viii. 4. 7, is precisely coincident with this, and the illustrative citations of its scholiasts are in good part those which our commentator gives us, and which are all strange to the Atharvan: they are, as examples of the rule, prâhṇah, pûrvâhṇah, and, as counter-examples, nirahnah, paryahnah, and durahnah. Our text has only the two examples aparâhnah (ix. 6. 46: p. apara-ahnah) and sahasrâhṇyam (e. g. x. 8. 18: p. sahasra-ahnyam), and furnishes no counter-examples at all, so that the rule evidently finds its justification in the observed phenomena of the general language, and not in those of the Atharva-Veda.

विभक्त्यागमप्रातिपदिकात्तस्य ॥ ७६ ॥

78. Also is liable to be changed the n of a case-ending, that of an agama, and the final n of a pratipadika.

This rule is the exact counterpart in form of Panini's rule viii. 4. 11, and the technical terms which it contains are undoubtedly identical in meaning with those there given: agama is an augment or inorganic insertion; pratipadika is a theme of regular derivation, ending in a ket or taddhita suffix. The commentator's instances are as follows: for the case-cucling ina, svargena lokena (not in AV.), varahena prthivi samiridini (vii. 1. 18); for the agama n, ati durgani viçva (vii. 63. 1: p. duh-gani); for the final of a theme, nai 'nam ghnanti paryayinah (vi.

76. 4: p. pari-ayinah).

The other treatises have nothing corresponding to this rule, which is, indeed, an unnecessary one, as a Praticakhya usually takes the words of its text in their pada-form, without going farther back to enquire how they came to assume that form. Such a word as varahena, where pada and sanhita read alike, is not regarded by the others as calling for any notice: those analogous with the other instances cited might have been ranked as falling under the preceding rule. Paryayinah is, it may be remarked, the only word of its class which the text presents, excepting pravahinah, in book xx (xx. 127. 2), and durgani also stands alone in its class; nor have I noted a single instance of such a compound form as would be svah-gena or duh-gena, where the alteration of the case-ending in the second word would be made in the reduction of pada to sanhita.

उपसर्गाद्वातोनीनापरे जिप ॥ ७१ ॥

79. Also that of a root after a preposition, even in a separate word.

That is to say, even when the words are not connected together as parts of a compound. The commentator gives us a single instance where the cause of conversion stands nanapade, and two in which it stands purvapade; they are apah pranayati (ix. 6. 4), ya eva yajña apah pranayante (ix. 6. 5; p. pra-nayante), and jivam rtebhyah parinayamanam

^{*} The Böhtlingk-Roth lexicon, upon the authority of this rule, erroneously makes it signify 'suffix.'

(xviii. 3. 3: p. pari-niyamānām). Instances of a somewhat different character, where the preposition lingualizes the initial n of the root in sanhitā and not in pada, although in the latter text no avagraha separates the two words, bave been already given above, under rule 76. The text presents us pranutta in like combinations also after vāibādha (iii. 6. 7) and sāyaka (ix. 2. 12); and we have farther, in pada, su-praniti (e. g. v. 11. 5), and parānayāt* (xviii. 4. 50). The initial n of a root is almost always cerebralized by the preceding preposition in the Atharvau, even when (as at ii. 7. 1, ix. 2. 17, x. 4. 26, etc.) the augment intervenes: the only exceptions are the combinations of nabh with pra (vii. 18. 1, 2), and of nart with pari (e. g. iv. 38. 3) and pra (e. g. viii. 6. 11). It is unnecessary to detail, therefore, all the rather numerous instances of the change.

The cases forming the subject of this rule are not classified together

by the other Praticakhyas.

प्रपराभ्यामेनः ॥ ८०॥

80. Also that of ena, after pra and parâ.

The commentator cites nearly all the examples which the text affords: they are prâi 'nân chruîhi (x. 3. 2), prâi 'nân vṛkshasya (iii. 6. 8: the same verse has, in its first pâda, prâi 'nân nude), and parâi 'nân devah (viii. 3. 16). As counter-example, to show that it is only after the two prepositions mentioned in the rule that ena exhibits the lingualization

of its nasal, is farther cited pary enan pranah (ix. 2. 5).

Here follows a lacuna, apparently of considerable extent. Where this rule should be repeated, before the one next succeeding, we read praparábhyámernayámasi navatec ca; and the sequel shows that navatec ca is a rule by itself, while what precedes is the mutilated remnant of This, aided by the implication in navatec ca, and by the text, which offers us the passage to which the rule was evidently intended to refer, we are enabled to restore with tolerable certainty to its true form. as punar nayamasi: what has become lost in the interval, we can only conjecture. Perhaps the treatise next took note of another case which the text affords of the lingualization of the nasal of ena, viz. à jabharâi 'nam (v. 31. 10). Possibly there followed also a mention of the passage asrjan nir enasah (ii. 10. 8); but this is very questionable, as the reading itself is doubtful. But it is beyond question that a part of the omitted passage had reference to the not infrequent change of the n of nah in sanhita into n after a lingual near the end of the preceding word: this is much too common to bave been passed over without notice. and the class of cases is too large and distinct to have been thrown

† It is given by M. W. H. and I.; but P. (if I have not been careless enough to omit to note its reading) and E. have enasah, and the printed text has followed their authority.

^{*} This is a case of entirely anomalous division and accentuation. We should expect upa-sampáránayát, like anu-sampráyáhi (xi. 1.36) etc.; but the pada reads upa-sám: paránayát, and all the sanhita MSS. agree with it as regards the accent: it can hardly be otherwise than an error of the tradition: see below, under iv. 2.

† It is given by M. W. H. and I.; but P. (if I have not been careless enough to

under any of the other rules of the section. The statement might be put into the form of two rules, as follows:

प्रपरिभ्यां नः ॥

आश्रीहरूप्यमृहेष्श्रिक्वेभ्यश्च ॥

'The n of nah is lingualized after pra and pari. As also, after agir,

urushya, grheshu, and çiksha.'

Under the first rule, the cases would be i. 2. 2; 7. 5. ii. 4. 2, 6; 7. 3, 4. iii. 16. 3; 20. 2. 3. iv. 10. 6. v. 7. 3. vi. 37. 2. vii. 2. 1; 5. 5. xi. 2. 20. xii. 2. 13; 3. 55-60. xiv. 2. 67. xix. 34. 4, 5. Under the second, the passages are âçîr na ûrjam (ii. 29. 3), urushyâ na urujman (vi. 4. 3: E. na), asamâtim grheshu nah (vi. 79. 1: E. nah), upahûto grheshu nah (vii. 60. 5: E. nah), and çikshâ no asmin (xviii. 3. 67). Where nah follows grheshu, the edition reads both times nah, without conversion, although the manuscript authority for the lingual nasai is precisely what it is for the same after urushyâ, E. alone dissenting. At iv. 31. 2, a part of the manuscripts (P. M. W.) read senânîr nah, but the edition properly follows the prevailing authority of the others (E. I. H.), and gives, with the Rig. Veda (x. 84. 2), nah. I have noted a single case where the Atharvan reads nah, while the Rik, in the parallel passage, has nah: it is vii. 97. 2 (RV. v. 42. 4).

It is altogether probable that a whole leaf, or a whole page, of the original of our copy of the text and commentary (or possibly, of the original of its original), is lost here, with as many as three or four rules. Fortunately, it is in the midst of the rehearsal of cases of a certain kind, which rehearsal can be made complete without the aid of the

treatise: so that the loss is not of essential consequence.

वुनर्णवामसि ॥ ८१॥

81. Also that of nayamasi, after punah.

The passage referred to is tain tva punar nayamasi (v. 14.7): all our sanhita manuscripts agree in giving the lingual nasal. Whether I have given the form of the rule correctly is not quite certain, a portion of it being lost altogether, as was pointed out in the last note.

नवतेश्व ॥ ८५॥

82. As also that of the root nu.

The word to which alone the rule relates is punarnava(p. punah-nava), for which the commentator cites three passages, viz. candramā; ca punarnavah (x. 7. 33), yā rohanti punarnavah (viii. 7. 8), and punar à 'gâh punarnavah (viii. 1. 20). The authors of our treatise, then, must have derived nava, 'new,' from the verbal root nu, 'to praise,' instead of from the pronominal word nu, 'now.'

पूर्वाणः ॥ ६३॥

83. Also in pûryâṇa.

The commentator instances but a single phrase in illustration of the rule, viz. pathibhih pūryānāih (e.g. xviii. 1.54: p. pūh-yānāih). There is small reason to be seen for singling out this word in order to make it the subject of a special rule, and the same is true of those treated in the two following rules: they might all have been as well left to fall into the gana of rule 76.

दुर्गाम्नः ॥ ८४ ॥

84. Also that of durnaman.

The commentator extracts from the text three of the passages in which this word occurs, viz. durnâmîh sarvâh (iv. 17.5), durnâmâ tatra mâ grdhat (viii. 6.1), and durnâmâ ca sunâmâ ca (viii. 6.4). The pada writes duh-nâman.

अवग्रहार्कारात् ॥ ६५ ॥

85. Also after an r at the end of the former member of a compound.

The commentator's examples are devayanah pitryanah (vi. 117. 3: the pada form of the word is everywhere pitryana), pitryanah sam va a rohayami (xviii. 4. 1), and nrmana nama (xvi. 3. 5: p. nr. manah). The text furnishes but a single other word falling under the rule, and that in the nineteenth book; viz. nrpana (xix. 58. 4).

It is worthy of note that Panini has a rule (viii. 4.26) which precisely corresponds with this, and that his scholiasts quote the same two

words in illustration of it.

न मिनाति ॥ ८६॥

86. But not that of the root $m\hat{\imath}$.

The commentator brings forward all the illustrations of the rule which the text contains—they are pra minij janitrim (vi. 110.3), pra minanti vratâni (xviii. 1.5), and pra minâti samgirah (xviii. 4.60)—excepting one in the ninctcenth book, praminâma vratâni (xix. 59.2). The rule itself is to be understood, it may be presumed, as giving exceptions to rule 79 above: yet the latter would seem to apply only to conversions of the nasal of a root itself, and not of the appended conjugational syllable.

The manuscript reads minanti instead of minati, and the final repeti-

tion of the rule before its successor is wanting.

भानोश्च ॥ ६७॥

87. Nor that of bhânu.

This rule is entirely superfluous. Of the two cases cited under it by the commentator, the first, citrabhâno (iv. 25.3), could fall under no rule for lingualizing the dental nasal excepting 76, and from that it would be excluded by absence from the gana to which alone the precept applies; the other, pra bhânavah sisrate (xiii. 2. 46), cannot be forced under any rule that has been laid down.

The Rik Pr. (v. 22, r. 49, ccclxvi) and Vaj. Pr. (iii. 91) also note bhânu as a word whose nasal is not snbject to be changed to a lingual.

परेर्हिनोतेः ॥ घट ॥

88. Nor that of the root hi after pari.

The Atharvan text furnishes but one such case, which the commentator quotes: it is parihinomi medhayā (viii. 4.6). As counter-example, the commentator brings up pra hinomi dûram (xii. 2.8); but here, as well as in the other cases where the forms of the same verb exhibit a lingualized nasal after pra, the pada-text also (by iv. 95) shows the same. A strict application of rule 79, then, to the nasal only of a root itself, would render this rule also unnecessary.

The Rik Pr. (v. 22, r. 50, ccclxvib) has a corresponding precept.

पदान्तस्पर्शयुक्तस्य ॥ ६१ ॥

89. Nor a final n, nor one conjoined with a mute.

The commentator's illustrative instances are pûshan tava vrate (vii. 9. 3), samkrandanah (v. 20. 9), and pâso granthih (ix. 3. 2). To the first part of the rule would need to be made the exceptions noted at iv. 99, but that, by the operation of that precept, they are made to read in pada as in sanhitâ, and so are withdrawn from the ken of the Prâtiçâkhya.

The first part of this rule is included in the general precept for the conversion of n as given by the Rik Pr. (v. 20, r. 40, ccclvii); which adds later (v. 22, r. 47, ccclxiv) that the n is not altered if combined with y or a mute. The Vâj. Pr. also divides the two parts of our precept (iii. 88, 92), but specifies only a dental mute as preventing the conversion of the nasal by combination with it. The Tâitt. Pr. (xiii. 15) includes in one rule this of ours and also 91, 93, and 94 below.

नशेः षात्तस्य ॥ १०॥

90. Nor that of the root nag, when it ends in sh.

This rule is precisely the same with one of Panini (viii. 4.36), and it belongs rather to the general grammar than to a Praticakhya of the Atharvan, since our text does not furnish a single case to which it should apply. The examples which the commentator gives are in part those which are found also in Panini's scholia: they are pranashtah, parinashtah, nirnashtah, and durnashtah. A counter-example, durnasam cid arvak (v. 11.6), he is able to bring up from the Atharvan.

स्वरलीपे इतेः ॥११॥

91. Nor that of the root han, when its vowel has been omitted.

The commentator offers the two following examples: vrtraghnah stomah (iv. 24.1), and indrena vrtraghna medt (iii. 6.2); and the counterexample rakshohanam vajinam (viii. 3.1), which has already figured as example under rule 76 above. Unless sparçayukta, in rule 89, meant only 'combined with a following mute,' which is very unlikely, the present precept is superfluous, as merely specifying a case already sufficiently provided for elsewhere.

Pâṇini (viii. 4. 22) looks at this matter from the opposite point of view, and teaches that the n of han is lingualized whenever it is preceded by a. The Tâitt. Pr. (xiii. 15) mentions the case along with

others, in a comprehensive rule.

चुभादीनाम् ॥ १५॥

92. Nor that of the root kshubh etc.

This, again, is coincident with one of Pâṇini's rules (viii. 4.39), and, so far as kshubh is itself concerned, is out of place in the Prâtiçâkhya of the Atharva-Veda: for not only does this Veda contain no derivatives from the root to which it should apply (we find only vicukshubhé [vii. 57.1] and kshobhaṇa [xix. 13.2]), but also, if such forms as kshubhnâti (which the commentator gives as an example under the rule), kshubhnîtah, etc., did occur, their reading would be sufficiently determined by rule 89, above. The commentator fills up the gaṇa with parinṛtyantyor iva (x. 7.43), madhunâ prapṭnâḥ (xii. 3.41), and pari nṛtyanti keçinîḥ (xii. 5.48): to these are to be added other forms of the root nart after pari and pra, and forms of nabh after pra—as already noted, under rule 79.

व्यवाये शसलैः॥१३॥

93. Nor when there is intervention of c_i , s_i , or l.

The instances cited in the commentary are kah prenim dhenum (vii. 104.1), garbhe antar adreyamanah (x. 8. 13), and savita prasavanam (v. 24. 1). For the intervention of l, no case is brought up, nor do the Rik Pr. and Taitt. Pr. make any account of this semivowel as ever coming in to hinder the conversion of the nasal. The Vaj. Pr., however, does so, and cites an instance, nirjarjalpena (in which, however, there is intervention also of a palatal). The latter treatise (iii. 94) and the Taitt. Pr. (xiii. 15) throw together into one this rule of ours and the one next following: the Rik Pr. gives a separate precept answering to each (R. Pr. v. 21, r. 44, 42, ccclxi, ccclix).

चटतवर्गिश्च ॥ १४॥

94. Or of palatal, lingual, or dental mutes.

The commentator gives the examples upe 'ho 'paparcana' 'smin goshtha upa pṛāca naḥ (ix. 4. 23), reshayāi 'nān (xi. 1. 20: this, however, is no example under the rule), yathā 'so mitravardhanaḥ (iv. 8. 6), and tam vartaniḥ (vii. 21. 1).

The corresponding rules of the other Praticakhyas have been referred

to above (under rule 93).

The physical explanation of the effect of the sounds mentioned in these two rules to prevent the lingualization of the nasal is obvious: they are all of them such as cause the tongue to change its position. When this organ is once bent back in the mouth to the position in which the lingual sibilant, semivowel, and vowels are uttered, it tends to remain there, and produce the next following nasal at that point, instead of at the point of dental utterauce; and it does so, unless thrown ont of adjustment, as it were, by the occurrence of a letter which calls it into action in another quarter.

पदेनावर्जिते च ॥ १५॥

95. Or of a word, unless it be \hat{a} .

As an example of prevention of the lingualization of n by the interposition of a word or words, even though composed only of such sounds as would not in the same word produce such an effect, the commentator gives us part 'me gâm aneshata (vi. 28. 2). As an illustration of the specified exception, that â may so intervene, and the conversion yet take place, he gives paryâṇaddham (xiv. 2. 12: p. pari-ânaddham), which is, I believe, the only case of the kind afforded by the text.

The construction of the other rules relating to this general subject in the remaining Praticakhyas is not such as to require them to make the restriction here taught. Panini, however, takes due note of it (viii. 4. 38), but omits to except the preposition a, so that (unless he makes the exception by some other rule which I have not observed) he would read paryanaddha.

तुविष्टमः ॥ १६॥

96. Note tuvishtamah.

This word occurs only once in the Atharvan, in a passage cited by the commentator, as follows: indrah patis tuvishtamah (vi. 33. 3). The pada-text reads tuvi-lamah, so that there takes place, as the commentator says, an inorganic insertion of s (sakārāgamah). The same word is found more than once in the Rig-Veda, but is written by the pada-text tuvih tama, so that there is nothing irregular in the sanhitā form, and it requires and receives no notice from the Rik Prātiçākhya. It is a legitimate matter for surprise to find the rule thrust in in this place, in connection with a subject to which it stands in no relation whatever: we should expect to meet it in the second chapter, along with rules 25 and 26 of that chapter, or after rule 30, or elsewhere. Its intrusion here, and the indefiniteness of its form, cannot but suggest the suspicion of its being an interpolation, made for the purpose of supplying an observed deficiency in the treatise.

The commentator, after citing the passage containing the word, goes on to say: sanhitayam ity eva: tuvitama iti tuvitamah: anadhikare

¹ The MS. writes, in every case, twittama in the commentary, but doubtless only by a copyist's error.

sûtranirdeçah: sûtrârthas tardyâgaç ca carcâparihârayor vacanam mâ bhûd iti; 'this is the form only in sanhitâ; the krama reads tuvitama iti tuvi-tamah: in the absence of an explanatory heading, the rule simply points out the form; and the significance of the rule is...(!): in carcâ and parihâra [repetitions of krama] the reading is not to be so made: that is the meaning.'

The signature of the chapter is as follows: 105: iti tṛtîyo'dhyâyaḥ. If its enumeration is to be trusted, our two lacunæ (unless some parts of the introduction and postscript of section iii are to be accounted as rules) have cost us nine rules.

CHAPTER IV.

Contents:—Section I. 1-2, combination of prepositions in pada-text with following verb; 3-6, exceptions; 7, separation by avagraha of such combinations; 8-12, do. of the constituents of compound words; 13-30, do. of suffixes of derivation from primitive words; 31-34, do. of case-endings from themes; 35-40, do. of other suffixes and constituents of compounds; 41, do of iva from the preceding word; 42-46, do. of the constituents of words doubly compounded.

Section II. 47-48, absence of avagraha before suffix mant etc. in certain cases; 49-50, absence of division by avagraha of certain copulative compounds; 51-54, do. of other compounds; 55, do. of v7ddhi derivatives from compound words; 56, do. of compounds with the negative prefix; 57-72, do. of other compounds and derivatives.

SECTION III. 73-77, general rules for restoration in poda-text of original or normal forms of words; 78, their application in krama-text also; 79-93, rules for restoration in certain cases and classes of cases; 94-100, exceptions.

Section IV. 101-109, necessity of the krama-text and of its study; 110-126, rules for construction of krama-text.

Our three preceding chapters have covered the whole ground which a comparison of the other treatises shows it to have been the bounden duty of a Prâtiçâkhya to occupy, and in this flual chapter are brought up matters which might have been left unhandled without detriment to the character of the work as a complete and comprehensive phonetic manual for the school to which it belonged. Its first three sections. namely, teach the construction of the pada-text: whereas we have hitherto assumed this text as established, and have been taught how to construct the sanhitá upon its basis, we now look upon the body of traditional scripture from just the opposite point of view, and, assuming the sanhita, receive directions for forming the pada from it. No other of the kindred treatises thus includes in its plan the construction of the pada-text; the Vaj. Pr. is the only one which takes up the matter at all: devoting, indeed, the whole of one of its chapters, the fifth, to an exposition of the rules determining the use or omission of the avagraha. or pause of separation between the two parts of a compound word, which is the subject of our first two sections, but leaving untouched the subject of our third section, or the restoration of words to their normal form in pada, which is not less indispensable than the other to the formation of the text. As regards the fourth section and its theme, the krama-text, their correspondences and relations will be set forth

when we arrive at the place.

As was the case with the third section of the foregoing chapter, our commentary offers us here a long introduction, containing about twenty clokas, to the subject of the chapter. It is prefaced with the following words: samásávagrahavigrahán pade yatho váca chandasi cákatáyanah: tathâ vakshyami catushtayam padam namakhyatopasarganipatanam;* 'as Çâkatâyana has set forth for the Veda the combination, division, and disjunction of words in pada, so will I set forth the quadruple word -noun, verb, preposition, and particle.' Next follows a definition of each of these four classes of words, and then an exposition of the rules according to which they are to be regarded as compounded with one another, as they occur in the connection of continuous text, illustrations of the principles stated being drawn from the Atharvan text. Finally is given a list of the twenty upasargas or prepositions, and a designation of their accentuation, which is also followed by a list of the upasargavrttini, or words which are treated as if they were prepositions—such as acha, tirah, purah, hin, etc. The verses are in one or two places very corrupt, and their precise meaning is sometimes doubtful: hence, in order not to interrupt the progress of our treatise by too long an interlude, I defer to an additional note, at the end of the work, a presentation of their text and an attempt to translate them.

उपसर्ग श्राख्यातेनोदात्तेन समस्वते ॥१॥

1. A preposition is compounded with a verb when the latter is accented.

This is the well-known usage of all the Vedic pada-texts, at least so far as they have been brought to general knowledge. With a true appreciation of the slightness of the bond which connects a verb with its prefix, the constructors of the disjoined text have ordinarily treated the two as independent words: unless, indeed, by the laws of accentuation of the senteuce, the usually enclitic verb retains its accent, in which case the preceding preposition in turn loses its accent and becomes proclitic; and the two are then written together as a compound. The commentator cites, as instances of verbs thus compounded, pari-yánti (i. 1. 1), sam-ábharah (i. 9. 3), and sam-srávanti (i. 15. 3). He adds, upasargavrtti-bhiç ca, 'the same is the case with the words which are to be treated as if prepositions,' and cites yám: arâte: purah-dhatsé (v. 7. 2), and yám: ami' iti: purah-dadhiré (v. 8. 5). That our treatise itself, in mak-

^{*} With the slight alteration of yatho'vaca to yatha''ha, we should have here three equal successive padas of a metrical verse: but the impossibility of forcing the last compound into any such metrical form, as a fourth pada, renders it very doubtful whether this is anything more than a curious coincidence, and whether the words are not meant for simple prose.

ing no special reference to such ambiguous words, means to regard them as to all intents and purposes actual upasargas, is altogether probable. As counter-example, to show that the proposition is not compounded with the verb when the latter is unaccented, the commentary offers yâtu-dhâ'nân: vi: lâpaya (i. 7.2).

The rule of the Vaj. Pr. (v. 16) is to the effect that avagraha is used between a verb and a preceding preposition, when the latter is unaccented. This is in some degree a better form of statement, since the loss of accent in the preposition is rather the cause of its combination

with the verb than the latter's acquisition of a tone.

म्रनेको जनुदात्तेनापि ॥२॥

2. If there be more than one of them, they are compounded even with an unaccented verb.

If more prepositions than one are compounded with an unaccented verb, only one of them, the one next the verb, is accented, the others becoming proclitic. In such a case, the constructors of the pada-text have very properly combined all with the verb, instead of simply putting the prepositions together, since it is not the relation of the former to the latter preposition that costs the former its accent, but rather their common relation to the verb; we have not a compound preposition, but a duplicate verbal compound. A later rule (rule 7, below) teaches us that in such a combination the first of the prepositions is separated by avagraha from the rest.

The commentator gives as illustrations the compounds ut-ávasyati (ix. 6.54), sam-â'cinushva: anu-sampráyâhi (xi. 1.36), and upa-sampárána-yât* (xviii. 4.50). He adds, as under the last rule, upasargavrttibhic ca, and illustrates with acha-â'vadâmasi (e.g. vii. 38.3) and abhi-hín-

krnota (xii, 3, 37).

I do not find any corresponding precept in the Vaj. Pr., although the cases which it concerns are not such as would properly fall under the rule of that treatise already referred to.

म्रनर्षकर्मप्रवचनीयान्ययुक्तैर्विग्रक्तो अभिवितन्वादिषु ॥३

3. Disjoined from the verb, however, are such as are used without significance, or to set forth the object, or such as are otherwise connected—namely, in the cases abhi vi tanu etc.

The Sanskrit language, much more than any other of the Indo-European family, has, throughout its whole history, maintained the *upasaryas* or prepositions in their original and proper character of adverbial prefixes, directing the action of the verb itself, and not belonging especially to the object of that action, or immediately governing its case-relation. Even in the Vedic dialect, where the preposition admits of being widely

^{*} The citation of this word here and under rule 7 shows that its true pada-form is as here given, and not as it has been noticed above (under iii. 79) that our pada-MS, actually reads.

separated from its verb, it yet, in the great majority of cases, belongs distinctly to the verb, and not to any noun. But, while this is true as a general rule, there are yet cases, in the Vedic as well as in the more modern classical Sanskrit, where the proposition has detached itself from the verb, and is to be construed more intimately with the object of the action. Even here, it more often follows the noun, as auxiliary to its case-ending, and so occupies an intermediate position between adverb and preposition, something like the German adverbs of direction in such phrases as aus dem Walde heraus, in den Wald hinein, or like the German an in ich blicke ihn an, as compared with the at in our nearly equivalent expression "I look at him." Whenever it happens that a preposition thus attached to a noun comes, in the construction of the sentence, to stand before an accented verb, or before another preposition which is connected with a verb, there arises an exception to the two foregoing rules, and such exceptions are made the subject of this and the two following rules: the first of them deals with such cases as grha'n: úpa: prá: sîdâmi (iii. 12.9), where the preposition is followed by another accented preposition and an unaccented verb, so that, by iv. 2, 7, we ought to have upa-prásídámi; the second, with such as váh: víçvá: abhí: vi-pácyati (vi. 34. 4), where the following preposition loses its accent before the verb, and the same rules would require abhi--vipacyati; the third, with passages where a single preposition comes before an accented verb, and so ought to lose its own accent and enter into combination with it, so that we should have, instead of yé: ásatah: pári : jajñiré (x. 7. 25), pari-jajñiré. The description which our rule gives of such uses of the prepositions is in near accordance with that of Panini. who also (i. 4.83-98) calls by the name karmapravacaniya ('concerned with the setting forth of the object of the action') such prepositions as are used otherwise than in immediate connection with a verb. He likewise uses in the same connection (i. 4.93) the term anarthaka, 'nonsignificant,' applying it, according to the scholiast's illustrations, to adhi and pari when used after an ablative adverb-thus, kutah pari, 'whence'—where they are unessential to the completeness of the sense. Whether the same term would be applied to the same prepositions when following a case, as an ablative or locative, I do not know; nor precisely how it is to be understood in our rule: the commentator gives no explanation of it, nor of anyayukta, nor does he assign his illustrations to the several items of specification which his text furnishes him. The term anyayukta probably means 'belonging to another verb,' but such cases are quite rare in the text: an instance of the kind intended is perhaps nih stuvanásya pátaya (i. 8. 3), where the preposition nih belongs to the verb pataya, and not to the intervening participle, to which it would otherwise be attached, with loss of its own accent. Panini's karmapravacaniya is comprehensive enough to include all the cases to which our rules apply.

In filling up the ganas of our treatise, and giving all the cases of a preposition preceding a verb, but not placed in accentual and compositional relations with it, I shall include together all that would fall under this and the two following rules, since they evidently form a single class,

and are only formally distinct from one another:

Of adhi, with an ablative case (or, rarely, an ablative adverb), ii. 7. 3. viii. 9. 4 (bis). ix. 5. 6; 9. 18. xiii. 1. 42; 3. 2. xix. 56. 1; with a locative case (or locative adverb), i. 3. 6; 32. 4. ii. 1. 5. viii. 9. 19. ix. 5. 4, 8; 9. 2; 10. 7. x. 7. 1, 12; 8. 41. xi. 7. 8, 9, 14. xii. 3. 36. xiii. 1. 37; 3. 6, 18. xiv. 1. 1; 2. 48. xviii. 4. 3: anu with an accusative, ii. 34. 3. vi. 97. 3; 122. 1. viii. 9. 12. x. 5. 25-35. xi. 8. 11, 19-22, 24, 27. xii. 2. 21. xiii. 2. 40; 3. 1. xv. 6. 1-9; 9. 1; 14. 1-12. xviii. 4. 28. xix. 13. 6; 44. 10: antar with a locative, i. 13. 3: abhi, with an accusative, iii. 21. 5. iv. 1. 3. v. 19. 4. vi. 34. 4. viii. 2. 4; 3. 9. ix. 10. 6. xii. 1. 29, 33; 3. 8, 12, 30, 52. xviii. 3. 2;* with an ablative, viii. 6. 22;† with a locative, xviii. 3. 40:‡ \hat{a} with a locative, xviii. 1. 59; a with an accusative, iii. 21. 1, 9. xix. 56. 3; a with an ablative, ii. 34. 5. x. 7. 25. xii. 3. 53.

But these prepositional or quasi-prepositional uses of the upasargas are of less importance to give in detail, because they are liable to occur in any part of the sentence, and their treatment as exceptions to the first rules of our chapter is a result of their accidental position in contact with a verb. There are other passages, considerably less numerous, where the prefixes, although evidently belonging to the verb, have an adverbial signification which is so far independent that they maintain their separate accent before an unaccented verb, or before another verbal prefix. The one most often thus treated is abhi, which is found before pra at iii. 1.2; 2.5. iv. 8.2; 32.7. xviii. 3.73, and before other upasargas at i. 1. 3. viii. 4. 21. ix. 9. 3: upa oceurs only before pra, & at i. 28. 1. iv. 31. 1. vi. 37. 1. xviii. 2. 53: â, also before pra alone, at iii. 4. 5. vi. 35. 1. xviii. 4. 49: apa, at iv. 31. 7; 32. 5: pari, at iii. 2. 4: avo, at vi. 65. 1 (p. áva: á'-yata: áva etc.); anu, at xiii. 4. 26; sam (perhaps to be connected with the following instrumentals), at xviii. 2.58: and ud, at xii. 1. 39—where, however, it is difficult not to believe the manuscript reading erroneous, and requiring amendment to ut-anrcuh.

In a single phrase, sám sám sravantu (i. 15. 1. ii. 26. 3. xix. 1. 1), the preposition sam, being repeated for emphasis before the verb, is both times accented, and so is left uncombined. At vi. 63. 4, in a like repetition, there takes place a combination, with accentuation only of the former word—thus, sám-sam: it, etc.; and, at vii. 26. 3, the repetition

of pra is treated in the same manner.

A briefer, and, we should have supposed, a more acceptable manner of disposing of all the cases to which these three rules relate, would have been to prescribe that when an *upasarga* maintained its own accent before an accented verb or another *upasarga*, it did not undergo combination with them. Such exceptions to the general rules for combination are treated by the Vaj. Pr. in rules 5 to 10 of its sixth chapter.

The commentator's cited illustrations are ihá: evá: abhí: ví: tanu (i. 1. 3), sám: sám: sravantu (e. g. i. 15. 1), sú: prá: sâdhaya (i. 24. 4).

§ Except in the anomalous combination upa: vandyah, at xviii, 4.65.

^{*} In some of these passages—viz. iii. 21.5. xii. 3.12, 30—the special connection of abhi with the noun is but the faintest, and the cases are hardly to be reckoned as belonging in this class.

[†] Here, too, the preposition belongs rather with the verb than with the noun.

† This is a combination unsupported by other passages, and hardly to be borne: for abhi is doubtless to be read adhi, with the Rig-Veda (x. 18. 3).

and upa: pra: agat (i. 28.1). The third is a case baving no proper analogy with the others, since su is not at all a verbal prefix; I have taken no account of it in drawing out the above statement.

पूर्वेणाभिविपश्याम्यादिषु ॥४॥

4. In abhi vipaçyâmi etc., the former preposition is disjoined.

The cases falling under this rule—those of a proposition retaining its accent and independence before another preposition which is itself made proclitic and combined with a following accented verb—have been detailed in the preceding note. The commentator quotes four of them, viz. $y\hat{a}'vat: te:abhi:vi-p\hat{a}cyami$ (xii. 1. 33), $m\hat{a}nas\hat{a}:abhi:sam-vid\hat{u}h$ (iii. 21. 5), $y\hat{a}'vat:s\hat{a}':abhi:vi-p\hat{a}cyahi$ (v. 19. 4), and $y\hat{a}h:vicy\hat{a}:abhi:vi-p\hat{a}cyati$ (vi. 34. 4). The examples, as in sundry cases elsewbere, are wanting in variety.

योनावधीर्यतादिषु च ॥५॥

5. In yonav adhy airayanta etc., the preposition is also disjoined from the verb.

This rule applies to such of the cases detailed in the note to rule 3, above, as show an accented and independent preposition immediately before an accented verb. The commentator instances samāné: yónāu: àdhi: à'irayanta (ii. 1.5), àdhi: tasthūḥ (ix. 9. 2), yé: àsatah: pàri: jajāiré (x. 7. 25), samudrā't: àdhi: jajāishé (iv. 10. 2), and pàri: bhū'ma: jà'yase (xiii. 2. 3). The citation of the last passage seems to imply that the commentator regarded bhūma as a verbal form, from the root bhū; but be can bardly, except in the forgetfulness of a moment, have been guilty of so gross a blunder.

श्राशीर्बभूवेति ध्रुतस्वर्स्य सिद्धवात् ॥६॥

6. Âçîḥ and babhûva are disjoined, owing to the determination of the protracted vowel.

That is to say, if I do not misapprehend the meaning of the rule, owing to the recognition of the final syllable of each word as a protracted one. To what end the precept is given, unless the words referred to (x. 2. 28 and xi. 3. 26, 27) have an irregular accent on the protracted syllable, I do not see. If accented, they would have a right, by the first rule of this chapter, to combination with the preceding preposition; but, the present rule virtually says, they are seen to lose this right upon a recognition of the fact that the accented vowel is protracted, and that its accent is therefore of an anomalous character. It has been already noticed (under i. 105) that a part of our manuscripts accent babhûvû'añ in the latter of the two passages referred to: not one gives an accent to âciāḥ, in either case of its occurrence.

पूर्वेणावग्रहः ॥७॥

7. The former preposition is separated by avagraha.

The avagraha, or pause of separation between the two parts of a compound word, is defined by two of the Prâtiçâkhyas (as has been already remarked, in the note following iii. 74) as having the length of a mora. From here to the end of section II (rule 72), the treatise is occupied with rules for its employment or omission. And, in the first place, with however many prepositions a verbal form may be compounded, it is always the first of them that is separated from the rest of the compound by avagraha. The commentator gives us as examples the same series of words which we had under rule 2, above, only prefixing to them upa-ávâiti (ix. 6. 53).

यातुमावत् ॥ ६॥

8. In yatumavat, also, the former constituent is separated by avagraha.

I interpret this rule according to the explanation of the commentator, who regards pûrvena as implied in it, by inference from the preceding rule. It comes in rather awkwardly here, as only prepositions have been contemplated, thus far in the chapter, as former constituents of compounds. The commentator adds an exposition of the matter, which is, however, too much corrupted and mutilated for me to restore and translate it: it reads matvarthe: vâyam mâvacchabdo manupo makârasya vokârah: âkârâgamah. The word is apparently regarded as being yâtu-mant, with an added suffix vant, and the rule is designed to teach us that, instead of being divided yatumâ-vat, as we might expect, it is to read yâtu-mâvat—as our pada manuscripts do in fact present it to us. The word occurs only at viii. 4. 23.

समासे च ॥१॥

9. Separation by avagraha takes place also in a compound.

The ca in the rule evidently continues the implication simply of avagrahah from rule 7, and the connection of the text casts upon yátamávat the suspicion of being an interpolation. A corresponding precept, samáse 'vagrahah, is by the Våj. Pr. set at the head of its chapter upon the use of avagraha (v. 1).

The commentator cites, as examples of separable compounds, upa-hûtah (e. g. i. 1. 4), bhûri-dhâyasam (i. 2. 1), bhûri-varpasam (i. 2. 1), and bhûri-dhanâh (vii. 60. 4). Whether such words as the first of these, or the participles of compounded verbs, should be regarded as falling under the designation samâsa, appears to me doubtful, as they present the closest analogies with the verbs from which they come. I have included them with verbal forms in filling up the gamas of rules 3 to 5.

उपजाते परेण ॥ १०॥

10. When a compound is farther compounded with an appended member, the latter constituent is separated.

The instance which the commentator selects for illustrating this rule is prajapatisrshtah (x. 6.19). The word praja is itself divisible as a compound—thus, pru-ja (e. g. vii. 35.3); upon farther adding pati, the former division is given up in favor of that between the old compound and its added member, and we have praja-pati (e. g. ii. 34.4); and a similar addition and removal of the pause of separation gives us prajapatisrshtah: while we might have, did the words occur, the yet farther change prajapatisrshtah-iva, or prajapatisrshti-bhih, and prajapatisrshti-bhih-iva. In no compound is the separation by avagraha made at more than one point, and it is always the member last appended which is entitled to separation.

The form of the corresponding rule in the Vâj. Pr. (v. 7) is vastly preferable to that of our own. That treatise says "in the case of a compound composed of several members, separation by avagraha is made of the member last added." This puts the matter upon its true basis, and accounts for the usage of the pada-text-makers both where they separate the latter member, and where they separate the former member, from the rest of the compound. We shall see below (rule 12) that the treatment by our Prâtiçâkhya of the separation of a former member is very obscure and imperfect.

मुप्राव्या च ॥११॥

11. Also in suprávyá.

That is to say, in the word specified the last member is separated from the rest of the compound, and not the first, as would be more in accordance with the general analogies of the system of separation. The passage, the only one in the Atharvan where the word occurs, is quoted by the commentator: supra-avyâ': yájamanâya (iv. 30. 6). Supravi is divided in the same manner by the pada-text of the Rig-Veda (e.g. i. 34. 4): it is of obscure derivation and meaning, and whether the etymology of it which is implied in its analysis as made by the H:-1- correct, is at least very doubtful. But whether or su-pra-vî, we should expect the pada-text to write it su-prâvî or su-pravî, and it is the recognition of its anomalous division which has caused it to be made the subject of a special rnle. The commentator adds a verse about it, which, however, appears to deal rather with its accentuation than its division: avateh prapûrvasya [suprapûrvasya? | tâçabdah [yaçabdah?] svaritah parah : suprâvî 'ti trtîyâyâh kshâiprah chandasi svaryate.

The Atharvan reading supravya is at any rate established by this rule, against supravye, which the Rik (x. 125.2) offers, and which the connection also appears to require. Possibly the form implies an explanation of the word which seems suggested by the first line of the verse just quoted, as if from the root av, with the prefixes su and pra, and with the added desiderative suffix ya, 'with desire to show propitious favor.' Such an explanation, of course, would be futile, being sufficiently disproved by the accent alone.

म्रनिङ्गेन पूर्वेण ॥१५॥

12. If the appended member is indivisible, the former member is separated.

This rule is very obscure, and I am far from feeling confident that my translation rightly expresses its meaning. The manuscript readings of its first word, in text and in comment, vary between aningena, atingena, and amigena. If the word really means 'inmovable,' i. e. 'indivisible, inseparable,' we should expect rather aningyena (compare ingya in rule 76, below); and possibly the latter may be the true reading: but as inga also is an acknowledged word, having the meaning 'movable,' I have not ventured to alter the form presented by the manuscript. As I have rendered it, the rule would appear to mean only that when to a word already compounded an inseparable appendix, for instance a suffix, was added, the division would remain as before—as in su-vîratâyâi, pra-padabhyam, and the like—but this is a perfectly simple ease, and one which hardly calls for especial attention and determination. The commentator's exposition is as follows: aningeno 'pajate: aningena viceshalakshanena avikrshitena: dvayoh samçaye jûte pûrvenâ 'vagraho bhavati; 'when a word is farther compounded with an indivisible—that is to say, with a modificatory appendage which is not taken apart—and there arises a doubt between two, separation is made of the former.' My translation of the rule is founded upon my (somewhat questionable) interpretation of this paraphrase. The cited illustrations, however, do not at all support it; they are su-kshetriya: su-gatuya (iv. 33, 2), saha--sûktavâkah (vii. 97. 6), sa-antardeçâh (ix. 5. 37), and sù-prajâh (iv. 11. 3). The last three of these are plain cases of separation of the constituent last added from the rest of the compound: the first two are less unequivocal, since we should rather regard the suffix $y\hat{a}$ as added to sukshetra and sugatu, and the more natural division as being sukshetri-ya, sugatu-ya;* but neither is ya an aningya suffix, as is shown by the next following word, vasu-y \hat{a} , and the others detailed in rule 30, below. The commentator adds a verse of farther exposition, but this also throws no additional light upon the matter in hand: it is dve yatrâ 'vagrahasthâne pûrvene 'ti parena vû: pûrvenê 'vagrahas tatra sukshetriyâ sântardeçâh suprajâç ca nidarçanam; 'where there are two places for separation by avagraha, either of the former or of the latter member of a compound, separation is there to be made of the first member: instances are sukshetriya, santardeçah, and suprajah.' I do not see how this statement can be accepted as a correct one; for, of the eompounds consisting of more than two members, the last is even more often separated from the first two than the first from the last two: the point of division being, except in a very few cases of which the treatise takes special note, determined by the history of the double or triple compound, upon the principle distinctly laid down in the Vaj. Pr., that the member last added is the one which must be separated. Thus, in

^{*} The Rik pada (i. 97. 2) actually reads sugatu-yâ, although it divides su kshetriyâ like our own text.

the first four books of the text, we have, upon the one hand, rta-prajata, madhu-samdrça, vi-âyâma, prati-abhicarana, mushka-âbarha, brahma--samçita, su-samnata, svapna-abhikarana, â-utsûryam, â-vynsham, âyuh--pratarana, çiva-abhimarçana, aksha-parûjaya, and açva-abhidhânî; and, on the other hand, sarûpa-krt, sarûpam-karanî, sapatna-kshayana, viskandha-dûshana, sapatna-han, abhimâti-jit, abhiçasti-pâ, samkalpa-kulmala, agnihotra-hut, akûti-pra, açara-eshin, vijesha-krt, abhibhûti ojas, and abhimati-sahas. And in the rare cases where three independent words are fused into a compound by a single process, the last one is separated from the other two: such are nagha-risha and itiha-asa (xv. 6.4). It will be difficult, I think, to find any interpretation for our rule which shall make it other than a bungling and inaccurate account of the phenomena with which it professes to deal. To connect aningena in construction with pûrvena, and translate 'the former member is separated from the rest when it is an indivisible word,' although it would satisfy well enough the requirements of the instances given by the commentator, would only throw us into new difficulties, for it would require us to read sa-rûpakrt as well as sa-antardeça, su-parnasuvana (v. 4.2) as well as su-kshetriya, and the like.*

तिक्षेते धा ॥ १३॥

13. Dhá is separated, when a taddhita-suffix.

As instances of the separation of the secondary suffix dhå from the themes to which it is attached, the commentor eites catuh-dhå: retaḥ (x. 10. 29), ashṭa-dhà: yuktaḥ (xiii. 3. 19), nava-dhà: hitāḥ (xiii. 4. 10), and dvâdaça-dhà (vi. 113. 3): in the same manner is treated mitra-dhà, at ii. 6. 4, for which the Vâjasaneyi-Sanhitâ, in the corresponding passage (xxvii. 5), has mitra-dhèye. On the other hand, the text offers a single exception to the rule, viçvádhå (vi. 85. 3), which neither the Prâtiçâ-khya nor its commentary notices: it is accented on the penult, while all the other compounds with dhå accent the suffix itself.

The commentator adds: vyatyayasvaçraddirghebhyo dhâpratyaye na avagraho bhavati; 'the suffix dhâ does not suffer separation after...(?), sva, grat, and a long vowel.' The words svadhâ and graddhâ, into which the root dhâ enters as last member, are here referred to, and

^{*} The best way, it seems to me, of saving the credit of our Prâtiçâkbya as regards its treatment of the subject of double composition in these two rules, will be to regard rule 10 as equivalent to Vâj. Pr. v. 7; understanding upajâte as meaning simply 'added to,' whether by prefixion or suffixion, and parena as signifying 'the later (i. e. the last added) constituent? and then farther, taking rule 12 to be added in limitation of 10, and to mean: 'when, however, the added constituent is incapable of being separated, the division remains as before.' It might well enough be thought that, in such cases of prefixion as avira-han (from vira-han), or in such cases of suffixion as su-viratâ, vâdhû-ya, pari-vatsarina, vi-irtsâ, etc., the addition of another element virtually fused the prior compound into one word, and would be understood as annulling its division by «vagraha, unless some direction was given to the contrary. This interpretation, however, would be contrary to the authority of the commentator, would require ns to understand parena and pûrvena in a different from their usual sense, and would convict rule 11 of being an interpolation, made since the misinterpretation of rule 10.

perhaps godhå (iv. 3. 6); but to what the first item in the enumeration refers, I have not succeeded in discovering.

The kindred suffix $d\hat{a}$ remains always attached to the theme to which

it belongs.

The Vâj. Pr. (v. 27) forbids the separation of $dh\hat{a}$ from a numeral, but allows it in other cases: it would read $caturdh\hat{a}$, $ashtadh\hat{a}$, etc., in pada. The usage of the Rik pada-text also does not entirely correspond with that of the Atharvan in regard to the same suffix: thus the former has $bahudh\hat{a}$, while the latter separates $bahu-dh\hat{a}$.

त्राकारान्ते ॥ १८॥

14. Also trâ, when it ends in â.

The commentator's examples are deva-trà: ca: kṛṇuhi (v. 12.2), and puru-trà: te: vanvatâm (vi. 126.1); and his counter-examples, of tra inseparable, are yatra: devâh: amṛtam (ii. 1.5), and tatra: amṛtasya:

cakshanam (v. 4. 3).

The Vaj. Pr. (v. 9) declares tra separable, and, as our treatise might just as well have done, regards tra as excluded by the designation of the form of the separable suffix as tra. The usage of the Rik pada is also the same with that taught in our rule. Doubtless it is the character of the forms to which tra is attached, as being pronominal roots, that prevents its separation from them, rather than anything in the suffix itself. The ablative suffix tas is not separated, even when it follows a word having an independent status in the language, as in abhitas.

यानेकाचरेण ॥१५॥

15. Also thá, when it is combined with a polysyllable.

The commentator's examples are rtu-thâ: vi: cakshate (ix. 10. 26), nâma-thâ: sa: manyeta (xi. 8. 7); and his counter-examples are adha: yathâ: naḥ (xviii. 3. 21), and tathâ: tat: agne (v. 29. 2). Here, again, it is evidently not the length of the words to which the suffix is appended, as monosyllables or polysyllables, that determines its separability, but the character of the former as pronominal roots and of the latter as nominal themes.

The Vâj. Pr. (v. 12) details the words after which thâ is separable.

तरतमयोः ॥ १६॥

16. Also tara and tama.

The commentator cites, as instances of these suffixes with separable character, $m\acute{a}dho\acute{h}: asmi: m\acute{a}dhu-tara\acute{h}: mad\acute{u}\acute{g}h\acute{a}t: m\acute{a}dhumat-tara\acute{h}$ (i. 34. 4), $\acute{u}t$ -tama $\acute{h}: asi: \acute{o}shadh\^{n}\acute{a}m$ (e. g. vi. 15. 1), $ah\acute{a}m: asmi: ya-c\acute{a}h$ -tama \acute{h} (vi. 39. 3), and $nrn\acute{a}'m: ca: bh\acute{a}gavat$ -tama \acute{h} (ii. 9. 2). He adds, according to his usual method of introducing counter-examples: taratamayoh iti kim artham, 'why does the rule say tara and tama? and gives the counter-examples $acvatar\acute{a}sya$ (iv. 4. 8) and $acvatary\grave{a}h$ (viii. 8. 22). The citation of these words in this manner, as if they were

excluded by the very form of the rule itself from falling under its operation, suggests as the true reading and interpretation of the rule taratamapoh, 'tara and tama when unaccented,' giving to the indicatory letter p the same force which it has as appended to the same snffixes by Pânini (e. g. v. 3. 55, 57). My copy of the manuscript, indeed, gives me everywhere taratamayoh; but, considering the small difference between y and p when hastily formed, I cannot be confident that the Hindu scribe did not mean to write the latter letter. But, in the first place, I find it very hard to admit that our Prâticâkhya would thus use an indicatory letter as an essential and determinative part of one of its rules, without giving anywhere any explanation of its value. Other such appendages to a snffix, corresponding with those which Panini employs, are, it is true, elsewhere found in the treatise: thus we have (iv. 20) tâtil, where the l indicates that the syllable preceding the suffix has the accent; also matu, vatu, and vasu, whose appended u is intended to show that the suffix receives an augment (agama) n in the strong cases, and takes the feminine ending i; and the particles u and su are called, with Panini, un and sun, to distinguish them from the exclamation u and the case-ending su: but the appended letters are nowhere used as significant. Again, we should expect that the p, if used at all. would be applied to each suffix, and that the rule would read turaptamapoh (compare Pân. i. 1. 22), which is certainly not its form in the manuscript. Finally, the admission of the indicatory letter, with its Paninean signification, would not make the rule complete and accurate. as stating the usage of our pada-text with regard to the suffixes in question; for, on the one hand, we have ratham-tará (e.g. viii. 10. 13), and the prepositional comparatives pra-tarám (e.g. v. 1.4), vi-tarám (v. 12. 4), and sam-tarám (vii. 16. 1); and, on the other hand, there are cases in which the unaccented endings are not separated from the themes to which they are attached, and one of these cases is even noted and specified by the commentator. The latter's discussion of the rule is fuller than usual, as he seems, for once, to feel the necessity of doing something to supply the deficiencies of his text; but his effort is only partially successful, and moreover, his language is so mutilated by the manuscript that I can make it out but imperfectly. He first asks why the separation of tara and tama is not made also in katará and katamá, yatará and yatamá (to which we may add ítara and ántara), and answers netûuche [nâi tâu stas?] taratamâv anyâv etâv akârâdî pratyayau : angasya 'tra "dimatram u çishyate lupyate param : svaradî pratyayav etau padatvam na 'tra çishyate; 'these are not tara and tama, but other suffixes, commencing with a [viz. atara, atama]: in the derivatives in question, the first portion of the theme remains, but the last is dropped [i. e. yatara = y + atara etc.]: these are two suffixes with initial vowel: capability of standing as separate padas is not taught of them.' This distinction of the suffixes as applied to pronominal roots from those applied to other themes is evidently artificial and false: the difference is that the roots themselves are not, like derivative themes, detachable from the suffixes appended to them—as we have seen to be the case under the two preceding rules. The commentator, changing his subject, then goes on to say gotamah pratishedho vaktavyah; 'the word gotama must be noted as an exception to the rule;' and he cites the passage in which it occurs: yâ'u: gótamam: ávathah (iv. 29.6); adding, by way of explanation, samjñâyâm rûdhigabdo dhâ tamâ 'trâ 'natigâyane: asamânah samudrâdis tasmân netyati gotamah. I have not succeeded in restoring this verse so as to translate it, but so much of it as applies to gotama may be pretty clearly understood: the word, as a proper name, is one of common currency, a samjñâ, or specific appellation employed without reference to its etymology, and its suffix tama has no superlative signification; hence there is a propriety in

treating it otherwise than as an ordinary superlative.

There yet remains one word in the Atharvan, viz. uttara, whose treatment by the pada-text requires an exposition which the Prâtiçâkhya omits. While uttama is always divided—thus, ut-tama—the comparative is variously treated, being sometimes divided and sometimes left without avagraha. The Vâj. Pr. (v. 2) takes special note of this irregularity, declaring a word formed with tara or tama not separable when opposed in meaning to 'south;' that is, when meaning 'north'—this being, as we may suppose, another case of samjīā. This principle is so far followed in our text that the word is never divided when it has the meaning 'north:' but-it is also left without avagraha in quite a number of passages* where it has its own proper signification 'upper,' or the naturally and regularly derived ones 'superior,' 'remoter,' or 'later.' I can only suppose that the true principle which should determine the separation or non-separation was misunderstood and misapplied by the constructors of our pada-text.

मतौ ॥ १७॥

17. Also mant.

The illustrations chosen by the commentator from among the very numerous examples of this rule presented in the Atharvan text are madhu-mat (e.g. i. 34. 3) and go-mat (xviii. 3. 61). Exceptions are noted farther on, in rule 47.

The Vâj. Pr. (v. 8) states the principle more broadly, including together all possessive suffixes; among them, most of those which form the subject of our next rule.

वकारादी च ॥१८॥

18. Also a taddhita beginning with v.

The commentator cites as examples atri-vat: vah: krimayah: hanmi: kanva-vat: jamadagni-vat (ii. 32.3), rta-vānam (vi. 36.1), satya-vānam (iv. 29.1, 2), açva-vān (vi. 68.3), anji-vam (viii. 6.9), keça-vāh (viii. 6.23),† mārta-vatsam (viii. 6.26), ā-vayam (viii. 6.26), and vādhū-yam

^{*} They are as follows: iii, 5.5. iv. 22.6. v. 28.10. vi. 16.4; 118.3; 134.2. viii, 2.15. xi. 8.18. xii. 1.54.

[†] The MS. next gives ranvatah, which I have not succeeded in identifying with any word in the Atharvan text.

(xiv. 1. 29). He must have been nodding when he added the last three words, of which the third has no suffix beginning with v, and the two others are not formed by suffixes, but by composition. He goes on to say $vij\bar{n}o$ pratishedho vaktavyah, but what is to be understood in, or from, $vij\bar{n}o$, I do not see: the cases of irregular absence of separation by avagraha which he adduces are druvayah:vi-baddhah (v. 20. 2), ubhayavinam (v. 25. 9), and the three words, of kindred character with the latter, amayavi, mekhalavi, medhavi, no one of which is found in the Atharvan, although we once have an accusative of the last of them, medhavinam (vi. 108. 4).

शिस वीप्सायाम् ॥११॥

19. Also ças, with distributive meaning.

The instances given in the commentary are paru-çah: kalpaya: enam (ix. 5. 4), and dhâma-çah: sthâtre: rejante: vi-kṛtâni: rûpa-çah (ix. 9. 16); the counter-examples, showing that ças is only separable when distributive, are ankuçah (vi. 82. 3) and kînâçâh (e. g. iii. 17. 5)—cases which it was very unnecessary to cite, since their suffix, if they have one, is ça, not ças.

The Vâj. Pr. (v. 9) marks ças, along with other secondary suffixes, as separable.

तातिलि ॥ ५०॥

20. Also tâti.

Pâṇini (e. g. iv. 4. 142) calls the suffix tati by the same name, tatil, the appended l signifying, as has been already noticed, that the syllable preceding the suffix is accented. The Vâj. Pr., in its corresponding rule (v. 9), calls it simply tati.

The commentator illustrates with the two passages mahyâi: arishta-tâtaye (iii. 5.5), and havishmantam: mâ: vardhaya: jyeshtha-tâtaye (vi. 39.1).

The related snffix $t\dot{\alpha}$ is never separated from the theme to which it is appended: $tv\alpha$ forms the subject of rule 26, below.

उभवाद् सुभि ॥ ५१ ॥

21. Also dyu, after ubhaya.

The commentator cites the examples ubhaya-dyuh: abhi-eti (i. 25. 4) and ubhaya-dyuh: upa: haranti (viii. 10. 21), and the counter-example yah: anyedyuh (i. 25. 4); which are the only cases (except a repetition of the phrase in i. 25. 4 at vii. 116. 2) presented in our text of derivatives—or, more properly, of compounds—formed with dyu or dyus. The name dyubh or dyubhi, which our treatise gives to the latter, is a strange one, and not supported by anything in Pâṇini: indeed, the latter seems never to use bh as an indicatory letter; the general grammar forms ubhayadyus with the suffix dyus, and anyedyus and its numerous kindred (see the Böhtlingk-Roth lexicon, under dyus, or Pâṇ. v. 3. 22)

with the suffix edyusac: one is tempted to conjecture that the anthors of our system may have regarded dyus in these compounds as a contraction for the instrumental plural dyubhis. The reading of the word is well assured, not only by the text and comment, but also by a cited verse with which the commentator closes his exposition: it reads anyasya dyubhi to etvam syad anyo va dyahbhir ishyate: lopa edyubhi ca 'ntyasya siddho va 'yam punar dyubhi. This evidently has to do with the formation of anyedyus, accounting for the e which precedes the suffix: but I can offer no entirely satisfactory restoration of the text.

मात्रे च ॥ २२॥

22. Also mátra.

This is most palpably a rule which has its ground in the observed phenomena of the general language, and not in those of the Atharva-Veda; for although, in the later language, mâtra came to be used in such a mode and sense as to give some ground for its treatment as a suffix, it is in the Atharvan nothing but a noun, and even enters into composition only with ati, forming the adjective atimâtra, 'above measure, excessive.' The commentator cites, in illustration of the rule, the two passages in which this compound occurs, namely ati-mâtram: avardhanta (v. 19. 1) and ye: âtmânam: ati-mâtram (viii. 6. 13).

विश्वाद्दानीमि ॥ ५३ ॥

23. Also dânîm, after viçva.

The commentator cites, as example and counter-example, viçva-dânîm (e. g. vii. 73.11) and tadânîm (e. g. x. 8.39), the only two Atharvan words which are formed with this suffix. Here, again, is an instance of a suffix remaining attached in pada to a pronominal root, while it is separated from a nominal theme (compare under rules 14-16).

मये उसकारात् ॥ ५४ ॥

24. Also maya, excepting after s.

A single example of the separation of the suffix maya is cited in the commentary, viz. caka-mayam: dhûmam (ix. 10. 25); and also a single example of its non-separation, when following a theme ending in s, viz. anah: manasmayam (xiv. 1. 12).

के व्यज्जनात्॥ ५५॥

25. Also ka, after a consonant.

Words in which the suffix ka is appended to a consonant are not at all frequent in the Atharvan: the commentator brings up two cases, viz. avat-kam (ii. 3. 1) and ejat-kâh (v. 23. 7), and I have noted but two others, viz. manah-kam (vi. 18. 3) and aniyah-kam (x. 8. 25). As counter-examples, where the same suffix, following a vowel, is left attached vol. vii.

in pada to its theme, he gives us tundikah (viii. 6.5) and cipavitnukah (v. 23.7). Such formations occur by scores in our text.*

वे चालोदात्ते ॥ ५६॥

26. Also tva, in a word accented on the final syllable.

The instances cited by the commentator of the occurrence of this common suffix are mahi-tvâ': kásmâi (iv. 2. 4), amṛta-tvám: ânaçuḥ (ix. 10. 1), and cúcayah: cuci-tvám (xii. 3. 28). As counter-example, to show that the tva is separated only when it receives the accent, is cited áditih: jánitvam (vii. 6.1: the Rik pada, in the corresponding passage [i. 89. 10], has jani-tvam); and this is the only word of the kind which the text contains, for at ii. 28. 3, where the edition reads janitvah, all the manuscripts have janitrah. The commentator adds a verse respecting his counter-example, as follows: janitvam aditeh param ne 'ngyate krijanaparatah: itvo va syaj janas tena padatvam na 'tra çishyate: this informs us that janitva following aditi is not to be treated as separable, as being formed from the root jan by the suffix itva, which is not taught to be an ending capable of constituting an independent pada. He then proceeds to ask the question iha kasmat samaso na bhavati : ekaja : tvam : · mahi: tvam; 'why is there no combination in the passages ekaja tvám (iv. 31. 3: p. eka-ja: tvám) and mahi tvám (not found in AV.); and he answers by a verse, from the authority, doubtless, which had suggested to him the query: ekaja tvam mahi tvam ca tad ubhayam samasyate [tû 'bhayam na samasyate?]: âmantritam tayoh pûrvam yushmada[s?] tvam param padam; 'in neither of the phrases ekaja tvam and mahi tvam is there a combination; the former word is there a vocative, and the latter is tvam from yushmad.' It is clearly a work of supererogation on the part of the commentator to explain such self-evident matters. But he is not content even with this; he continues "why is not agrepitva separated?"—that is to say, I presume, why is it not divided agrepi-tva, instead of agre-pitva?-and he again cites a verse: taddhite vagrahah çishtah padatvam na 'tra çishyate: pibates tam nibodhata itvam chandasam ishyate; 'separability is taught only of taddhitas; division into separate padas is not taught of this case; note that the word comes from the root pâ, 'to drink,' with the Vedic suffix itva.' But, even were this exposition in itself worth giving, the word to which it relates does not occur in the Atharvan, nor-judging from its non-appearance in the Böhtlingk-Roth lexicon—in any other of the known Vedic texts. We could wish that our commentator had reserved his strength for points where its exertion would have done us some service.

The suffix tra, which appears in the single word sańskṛtatrá to fill the office of tva, is in onr pada-text (iv. 21. 4) left inseparable, while the Rik, in the corresponding passage (vi. 28. 4), interposes the avagraha before it. Taya, in catushṭaya (x. 2. 3), is not separated from its theme. Of ta, notice has been taken under rule 20.

^{*} For example, in the first eight books, from which alone I have excerpted them, at i. 2. 2; 3. 6-9. 9; 11. 5; 25. 4; 34. 2. ii. 8. 1; 24. 1, 2; 26. 5. iii. 11. 2; 23. 4. v. 18. 8. vi. 29. 3; 43. 1; 83. 3; 121. 4. vii. 56. 6. viii. 6: 19, 21 (bis).

कृत्वे समासो वा नानापददर्शनात् ॥ ५०॥

27. Krtva is combined or not, according to its appearance as an independent word or otherwise.

Krtvas occurs but three times in the Atharvan: twice it is treated as an independent word, both it and the preceding numeral having an accent; once it is combined with the numeral, the latter losing its separate accent, and it is then separated by avagraha from it. The commentator cites all the passages, as follows: catúr: námah: ashta-kṛ'tvah: bhavâ'ya: dáça: kṛ tvaḥ (xi. 2. 9), and tríḥ: saptá: kṛ tvaḥ (xii. 2. 29). After this, having not yet recovered from the impulse which made him so fertile of exposition under the foregoing rule, he continues: nanv evam: katham : vyavasthitena vikalpena vaçabdena pratipaditatvat; 'now then, how is it? since a diversity of usage is taught respecting the word, by the use of the term vd? and he makes reply in a lengthy citation from his metrical authority, which wanders at the end far beyond the limits of the subject in hand: karoter daçasaptâbhyâm tvaçabdah krd vidhîyate: sankhyâyâ anudâttâyâ ashtaçabdât samasyate:udâttâd daçasapte 'ty evam pûrvena vigrahah: dhaparyantas taddhita ye te shte va 'vagraho bhavet : ato 'nyena padatve 'pi yuvatyâdishu taddhitam : dhâtrâthâtâtiliçasidânîmtaratamomatup : vamâtradyubhi ketvâpi mayakṛtveshv avagrahah. In the last verse we have an enumeration of all the suffixes thus far treated of as separable.

जातीयादिषु च ॥ ५०॥

28. Játíya etc. are also separable.

As instances of the use of jātiya, the commentator gives us paṭu-jātiya, mṛdu-jātiya, paṇḍita-jātiya, and çobhanā-jātiya: none of these words, however, nor any other compounds with the same final member, are to be met with in the Atharvan text. The general grammar also treats jātiya as a suffix, and Pāṇini's scholiasts (under v. 3.69) give, as an example of its use, the first of the instances of our commentator. The latter farther cites, to fill out the gaṇa of the rule, some of the compounds of dheya, viz. bhāga-dheyam (e. g. vi. 111.1), rūpa-dheyam (rūpa-dheyāni: ii. 26.1), and nāma-dheyam (vii. 109.6). What other frequently occurring final members of compounds it may have pleased the authors of our treatise to regard as suffixes, and to include in this gaṇa, I do not know: I have noted no actual suffixes as needing to be comprehended in it.

यादाविक्वायां स्वरात्कर्मनामतन्मानिप्रेप्सुषु ॥ ५१ ॥

29. Also a suffix commencing with y and preceded by a vowel, in a desiderative form; namely, in participles, denominatives, and desiderative adjectives.

Not one of the technical terms used in this rule is known to me to occur elsewhere than in the grammatical language of our treatise. One

of them, ichû, we have had at another place (iii. 18), and in such a connection as to show that it is employed to designate the whole class of words to which this rule applies; the others, then, are specifications under it, or a classified statement of the cases which it includes. same thing is indicated by the commentator, who paraphrases as follows: yâdâv ichâyâm svarât avagraho bhavati karma° etc. Karmanâma, then, I have without much hesitation rendered by 'participle;' and tanmanin scems to me to mean 'implying the making or doing of that which the theme indicates,' and so to be applicable to such words as catrûyanti, aghâyanti, where the signification is not simply desiderative: but of this I do not feel altogether confident, and I have at one time sought in the word a designation of the middle participles having the termination mana; prepsu I think must belong to such derivative adjectives as devayu, cravasyu. The commentator, as usual, fails to give us any light upon these points: he only cites, as instances of the separable suffixes to which the rule relates, adhvari-yatâm (i. 4. 1), agha-yuh (e. g. iv. 3. 2), vrsha-yamanah (ii. 5. 7), and çatru-yatim : abhi (iii. 1. 3): and farther, as counter-examples, tat: sisâsati (xiii. 2. 14), to show that no desiderative suffix is separable unless beginning with y; and yena: gravasyavah (iii. 9. 4), to show that the suffix beginning with y must not be preceded by a consonant.

The Vâj. Pr. has a corresponding rule (v. 10), but more briefly ex-

pressed.

वस्ववस्वप्रमुम्नसाधुभिर्या ॥३०॥

30. Also ya, when combined with vasu, ava, svapna, sumna, and sadhu.

Why this rule should be necessary, after the one which precedes it, and which would include all the cases to which it is intended to apply, I find it difficult to see. It can hardly be that it was meant to exclude such words as su-kshetriyâ, su-gâtuyâ, since these have been otherwise provided for (see under rule 12, above): more probably, forms like mithuyâ (e. g. iv. 29. 7) and urviyâ (e. g. v. 12. 5) are to be regarded as its counter-examples. The Vâj. Pr. (v. 20) also does a like work of supererogation in reference to sundry words of its text. The commentator repeats the words, but gives nothing of the context of the passages in which they occur: they are vasu-yâ (iv. 33. 2), ava-yâ (ii. 35. 1), svapna-yâ (v. 7. 8), sumna-yâ (vii. 55. 1), and sâdhu-yâ (x. 4. 21). The second of them is classed with the rest only by a blunder, since it is evidently avayâs, the irregular nominative singular of ava-yâj, and ought to be written by the pada-text ava-yâh, instead of ava-yâ.

The comment closes with another verse: paācāi 'vā 'vagrahān āha yāṣabde ṣākaṭāyanaḥ: antodātlaḥ padatvam ca vibhaktyarthe bhavet tu yā; 'Çākaṭāyana mentions five cases in which yā suffers separation by avagraha: it is accented as final, and stands as an independent element, when used as a case-ending.' I am by no means confident that I have

correctly interpreted the last line.

भिर्म्याभ्यःसु ॥३१॥

31. Also bhis, bhyâm, and bhyas.

As illustrations, the commentary furnishes pañca-bhih: aṅguli-bhih (iv. 14.7), uru-bhyâm: te: ashthìvad-bhyâm: pârshni-bhyàm: pra-padâ-bhyâm (ii. 33.5), and asthi-bhyah: te: majja-bhyah: snâva-bhyah: dhamani-bhyah (ii. 33.6). The case-ending bhyam, as in tubhyam and asmabhyam, is not treated as separable.

The Vâj. Pr. (v. 13) puts our rules 31 and 33 into one, declaring a case-ending beginning with bh separable, when following a short vowel or a consonant. This would teach the division tu-bhyam, asma-bhyam, also; but the latter is expressly declared indivisible in another rule (v.

35), and the former was perhaps overlooked.

सी च॥३५॥

32. Also su.

The commentator's instances are anha-su (vi. 35.2), ap-su (e.g. i. 4.4), and vayam: raja-su (vii. 50.7).

The Vaj. Pr. (v. 14) combines this rule with rule 34, and says that su

is separated when its's is not changed to a lingual.

न दीर्घात्॥ ३३॥

33. But not after a long vowel.

This restriction applies to both the two preceding rules: no case-ending is separable after a long final vowel, whether this be an original long final of the theme, or the result of a prolongation according to the rules of declension. The commentator instances yâbhih: sutyam: bhavati (ix. 2. 25), tâbhih: tvam: asmân (ix. 2. 25), akshibhyâm: te: nâsikâbhyâm: karnâbhyâm (ii. 33. 1), gobhyah: açvebhyah (iii. 28. 3), and âsu: itarâsu (iii. 10. 4).

Compare Vâj. Pr. v. 13, as quoted under rule 31, above.

ं विनामे च ॥३४॥

34. Nor where conversion into a lingual takes place.

This is an exception under rule 32, applying only to the termination su. The two, as was already remarked, are by the Vâj. Pr. combined into a single rule (v. 14). Our commentator cites prati: tishtha: dikshu (iv. 14. 9), namasyah: vikshu: îdyah (ii. 2. 1), mânushîshu: dikshu (v. 11. 8), marutah: vikshu (viii. 4. 18), yam: ca: vikshu (ix. 5. 19), pari: paçya: vikshu (viii. 3. 10), and su-vrjanâsu: dikshu (xviii. 1. 46).

¹ The MS. adds dup-su, which I have not been able to identify with any Atharvan word. Possibly htt-su is intended.

वसी ऋस्वात् ॥३५॥

35. Vans is separated after a short vowel.

The commentator quotes from the text the examples cakr-vân (ii. 35. 3) and papi-vân (xiv. 1. 3), and the counter-example vidvân (e. g. ii. 1. 2), and then goes on with a long citation from his metrical authority, as follows: apade 'vagrahah cishta ikârena padâdinâ: dhâtvantâc ca vasâu hrasvâc cakrvân papivân iti: upasargasamāse 'pi vasâv evâ 'vagrhyate: kikinâuvâviçeshena bhûte tâbhyâm vidhîyate: vasusvârthe tayo lubdham bahulam chandasî 'ti ca: vâ tayoh krtoh samâsâc câ 'pojâyeta vastutah: avakâre padatvam na pûrvenâi 'vâ 'vagrhyate: ahrasve 'pi padatvam syât prâptas tatrâ 'py avagrahah: ahrasve chândasatvât tu rutvam âhur manîshinah. The meaning of some of these lines is very clear, and they are seen to cover the ground of our present rule and of the two following: others are obscure, and need emendation before they can be intelligently rendered.

The Vaj. Fr. gives but one rule (v. 11) respecting the separation of the suffix of the perfect participle, combining together the specifications

and counter-specifications of the three rules of our treatise.

तेनैवोपसृष्टे जी ॥३६॥

36. And that, even when the form is combined with a preposition.

The cited illustrations are pareyi-vânsam (xviii. 1. 49), praviçi-vânsam (iv. 23. 1), jakshi-vânsah: papi-vânsah (vii. 97. 3), and uttasthi-vânsah (vi. 93. 1). The same words (excepting jakshivânsah, perhaps omitted by the carelessness of the copyist) were found cited nnder i. 88, and it is probably their association there which has caused the inclusion among them here of the two forms from simple roots, which are of no value as regards the matter now under treatment. But for this rule, we might expect pra-viçivânsam, ut-tasthivânsam, and so on, like pra-vishtam, ut-tishthatah, etc. And yet, the separation as here taught is not discordant with the general principle that the last added member shall be the one which receives avagraha, since we may more properly regard the participial suffix as combined with the root after the latter's composition with its prefix than before: were ta a separable suffix, we should doubtless also have pravig-ta, utthi-ta, and the like.

उपसर्गेणावकारे ॥ ३७॥

37. But the preposition is separated, when the suffix shows no v.

That is to say, when the suffix is contracted into usk, in the weak forms of declension, it is no longer separable, and the avagraha remains where it was before, between the preposition and the verb; as in the forms cited by the commentator, â-jagmushah: anu-mate (ii. 26.2), and vaçà: pra-dadushe: duhe (xii. 4.35). He adds a verse: yadà prasara-

nam tasya padatvam ne 'shyate tadâ: pûrvenâ 'vagrahah siddho yatas taj jiyate padam; 'when the suffix suffers contraction, its capability of standing as an independent pada is not taught: the former constituent then maintains the avagraha, as having a superior right to it (?).'

समतः पूर्णे ॥ ३०॥

38. Samanta is divided, when it has the sense of completion.

The commentator gives us, as instances of the separable compound, pushkarinih: sámantah (iv. 34.5 etc.), and sám-agrah: sám-antah: bhû-yâsam (vii. 81.4); and, as instance of the separable compound, yáthà: vrkshâm: libujà: samantám (vi. 8.1). But how the word has the sense of completion any more in the two former cases than in the latter, I quite fail to perceive. The commentator adds a farther exposition, which puts the distinction upon a safer, though still an arbitrary, ground: samantam sarvato rthe intodâttam na vagrhyate, âdyudâttam avagrhyate: pûranârtham pushkarinîh samantâh; 'samantam, having the sense of sarvatas, 'wholly,' and accented on the final, does not suffer avagraha; when accented on the first, and having the sense of completion, it suffers avagraha, as in pushkarinîh samantâh.'

म्रनती विसंभ्यां प्राणाच्या चेत् ॥३१॥

39. The prepositions vi and sam are separated from the root an, when the word formed is a name of the breath.

We should have expected this rule to be stated the other way; namely, that the root an was not separated from pra and apa (in the compounds prana and apana, which are always thus written in pada, without division). This would, on the one hand, be theoretically preferable, since the general rules for division would lead us to expect the pada-readings pra-ana, apa-ana, vi-ana, and sam-ana, and we therefore ought to have the first two denied, rather than the last two ratified, by a special rule: and, on the other hand, it would be practically more accurate, since udana, which occurs in the combination vyana-udanau, is doubtless a separable compound, and is in fact so regarded by the commentator, under rule 42 below. Why prana and apana should not also be divided, it is far from easy to see.

The commentator gives us the examples vi-anah: ayuh (xviii. 2. 46), and sam-anam: asmin: kah (x. 2. 13). To show that it is only after vi and sam that the avagraha takes place before an, he brings up the connter-example pranah: apanah (xviii. 2. 46); and, to show that the compound must be a name of the breath, he cites samanam: astu: vo: manah (vi. 64. 3). The specification pranah (vi. 64. 3). The specification pranah (vi. 64. 3).

from $sa + m\hat{a}na$, not $sam + \hat{\sigma}na$.

The Rik and White Yajus treat the word prâna in the same manner as onr text: apâna does not appear to occur in the former Veda, and in the latter it is (Vâj. Pr. v. 33, comm.) separable. Compare also Vâj. Pr. v. 36, which deals with samâna.

काम्याम्रेडितयोः ॥४०॥

40. Also are separated kâmya and a repeated word.

This is a strange rule. In the first place, the Atharva-Veda furnishes no ground whatever for the treatment of kâmya as a suffix, even though it be regarded as such in certain combinations in the general grammatical system (see Pân. iii. 1. 9 etc.). We find it only in such compounds as the commentator instances by citing acraddhah: dhana-kamya (xii. 2.51) and anrtam: vitta-kâmyâ (xii. 3.52), which would fall under rule 9 of this chapter without occasioning any difficulty or hesitation. In the second place, I can discover no possible reason for combining together in one rule things so utterly unconnected and incongruous as the occurrence of this suffix and that of words repeated in an emphatic or a distinctive sense. The dual termination, however, is our warrant that we have not here, as in the case of rules 12 and 13 of the first chapter, two rules written and explained together by the commentator. The latter cites a single passage containing two words which are amredita, viz. bhûyah bhûyah : çvoh-çvah (x. 6. 5 etc.).

The Vaj. Pr. (v. 18) has the same rule respecting repeated words, and calls them (i. 146) by the same name. Panini also employs the term amredita (e. g. vi. 1. 99) in a kindred sense.

इवे च ॥४१॥

41. Also iva.

The commentator cites but a single instance—sålåvṛkān-iva (ii. 27, 5)-of this exceedingly frequent case of combination. The Vaj. Pr. notes it at v. 18.

मिषोवगृद्ययोर्मध्यमेन ॥४३॥

42. Separation is made between two words which are each of them separable.

Or, as the commentator paraphrases it, when two words, themselves separable, are combined into a single word, separation of the middle member (parvan) is made. His instances are yat: anjana-abhyanjanam (ix. 6. 11), praja-amṛtatvam: uta: dîrgham: āyuḥ (xi. 1. 34), and vyāna--udánau: vák (xi. 8.4); to which we might add indefinitely, not only copulative compounds, but possessives (e. g. ahrta-yajñakratuh, ix. 6. 27) and others.

The Vaj. Pr. finds no need of such a rule as this, nor does it seem imperatively called for, all possible cases being already disposed of by rules 10 and 12, above. Still less is to be seen the necessity of adding to it the two which next follow, and which it obviously includes.

समासयोश्च ॥ ४३ ॥

43. As also, between two compounds.

The sole example furnished in the commentary is aghaçansa-duhçan-sâbhyâm: karena (xii. 2. 2).

दिरुक्ते चावगृन्धे ॥४४॥

44. As also, between a separable word and its repetition.

The commentator cites instances of repeated words occurring in five successive verses of the Atharvan text, without troubling himself about the fact that two of them are not separable: they are kurvatim-kurvatim: eva (ix. 5. 32), samyatim-samyatim: eva (ix. 5. 33), pinvatim-pinvatim: eva (ix. 5. 34), udyatim-udyatim: eva (ix. 5. 35), and abhibhavantim-abhibhavantim: eva (ix. 5. 36). He adds a verse: prthagingyasamäse ca madhye kuryâd avagraham: samyatimsamyatim câi 'va vyânodânâu nidarçanam; 'separation by avagraha must be made in the middle of a compound made up of two severally separable words: instances are samyatim-samyatim and vyânodânâu.'

वसुधातरः सङ्ख्रसातमेति वसुसङ्ख्राभ्याम् ॥४५॥

45. In vasudhâtara and sahasrasâtama, separation is made after vasu and sahasra.

The passages are cited by the commentator: vasu-dhâtarah: ca (v. 27. 6), and sahasra-sâtamā: bhava (iii. 28. 4). It is not without reason that the Praticakhya takes note of these cases; for, since the suffixes tara and tama are separable (hy iv. 16), and are plainly the last added members, the words they form should read, in pada, vasudhâ-tara and sahasrasd-tama. Comparatives and superlatives of this particular class. however, where the suffixes are appended to root words which directly govern the preceding member of the compound, are treated in the same manner by the pada-texts also of the Rik (e.g. ratna-dhâtamam, i. 1. 1) and White Yajus, and the latter's Praticakhya (V. Pr. v. 3), makes special mention of them. The commentator adds: vasudhâtara iti: vasûnâm dhâtrturah: shashthyantena [arthena?] samâsah: samâse avagraho bhavati : vasûni vâ dadhati : vasu-dhâtarah : samâse avagraho bhavati ; 'vasudhâtara: that is, one who is in a high degree a giver (dhâtrtara) of good things; composition is made with a form having a genitive sense; the compound suffers avagraha: or, vasudhâtaras, 'they bestow good things;' the compound suffers avagraha.' The only item of value derivable from this exposition is that some authorities regarded vasudhâ'tarah as the plural of rasu-dhâtar. It would be, in fact, in its Atharvan connection, much more easily interpretable in this manner. but that the accent speaks strongly for the other mode of derivation. The passage in which it occurs is shown by comparison with the White Yajus (xxvii. 15) to be curiously misnuderstood and corrupted, and the Atharvan vasudhâ'tarah corresponds to vasudhâ'tamah of the other text: we may suppose that the former means to give the plural of vasudhâtar, but gives it the accent which belongs to vosudhâ'tama and its corresponding comparative vasudhâ'tara. The commentator closes his treatment of the subject with a verse: sanibhyâm [sâdhâbhyâm?] ca

krdantâbhyâm vihitâu taddhitâu parâu: tâbhyâm shashthîsamâse ca pûrvenâ 'vagrahah smrtah: 'after sâ and dhâ (?), as krt-endings, taddhitas are declared to follow: in a compound with these having a genitive meaning, the former member is separated by avagraha.'

सुभिषक्तमस्तमे ॥ ४६ ॥

46. Subhishaktama suffers separation by avagraha before tama.

The commentator cites subhishak-tamâh (vi. 24. 2); we have also the nominative singular masculine at ii. 9. 5. He adds cobhanah bhishak: subhishak; 'subhishak means propitious physician;' and then again gives a verse: bhishajâ hi suçabdo 'yam pumlingena samasyate: upajâtas tamas tasmât pûrvenâ [parenâ?] 'vagrahah smrtah; 'here su is compounded with the masculine bhishaj, and tama is farther appended: separation by avagraha is made of the latter.'

I can see no reason at all for any such rule as this: the case specified is simply one in which the separation by avagraha takes place normally, according to the general rules, and a score more of precisely similar cases might easily be quoted from the Atharvan text: instances are

cases might easily be quoted from the Atharvan text: instances are bhágavat-tama (ii. 9. 2) and bhágavat-tara (iv. 13. 6), sphátimát-tama (iii. 24. 6), mṛtámanaḥ-tara (vi. 18. 2), and vṛtrahán-tama (vii. 110. 1).

The signature of the first section, which closes here, is as follows: 47: caturthasya prathamah pådah: caturâdhyâyîbhâshye caturthasya prathamah pådah samâptah. We have found but forty-six rules in the section, but have remarked one (rule 40) which ought to have been divided and counted as two. Possibly two may have been fused together in it, in order to allow the commentator's introduction to the chapter to count as a rule, without altering the received number in the section: but I have neither been willing to allow the rank of a rule to anything in that introduction, nor ventured to divide rule 40 into two parts.

न तकार्सकाराभ्यां मर्ख्ये ॥ ४० ॥

47. The suffix mant and its equivalents are not separable after t and s.

The commentator cites in illustration datvatî (e. g. iv. 3.2), garutmân (e. g. iv. 6.3), marutvân (e. g. vi. 104.3), ûrjasvân (ûrjasvantah, vii. 60.2), payasvân (c. g. vii. 73.5), ûrjasvatî (e. g. iii. 12.2), and payasvatî (e. g. iii. 10.1). The only consonants other than t and s which are found to occur before the suffix vant are n and n, which allow separation; instances are âsan-vat (vi. 12.2), asthan-vantam (ix. 9.4), brahman-vatîm (vi. 108.2), etc. The rule is an exception under rule 17 above; by the Vâj. Pr. (v. 8) it is included with the general rule in one statement.

यत्तदेतेभ्यो वतौ ॥४८॥

48. Nor vant, after ya, ta, and eta.

The commentator's examples are yavat: te: abhi: vi-paçyami (xii. 1. 33), tavat: sam-aitu: indriyam (iii. 22. 5), and etavat: asya: pracinam (iv. 11. 8); and his counter-examples, which are hardly called for, are sanrta-vat (e. g. v. 20. 6), and apashtha-vat (xiv. 1. 29). This rule, also, is included in Vaj. Pr. v. 8, since in each of the words to which it refers there is an irregular prolongation of the final vowel of the theme before the suffix.

देवतादन्दे च ॥४१॥

49. Nor a copulative compound made up of the names of divinities.

The commentator gives pretty nearly the whole series of such compounds which the text furnishes: they are indragnî (e.g. i. 35. 4), indravâyû (iii. 20. 6), bhavôrudrâu (xi. 2. 14), bhavâçarvâu (e. g. iv. 28. 1), vâtâparjanyâ (x. 4. 16), agnîshomâ (e. g. i. 8. 2), mitrâvarunâ (e. g. iii. 4. 4), indravaruna (e. g. vii. 58. 1), and indrasoma (e. g. viii. 4. 1): to be added are only somârudrâu (e. g. v. 6. 5), indrâpûshanâ (vi. 3. 1), and agnavishnû (vii. 29. 1, 2). A number of verses follow in the commentary, in the usual corrupt condition of text: devatanam iha dvandve dîrghatvam yadi dreyate: aningyam tat2 padam vacyam agnishomau nidarganam: thus much is clear, and is a virtual repetition of our rule, but with a restriction to cases in which a long vowel appears at the end of the first member of the compound, which requires a specification farther on of the single exception indravaya; what follows is more obscure, and I have not been able, with what time I have given to it, to restore the text to an intelligible form; it reads: vasuranam dvandve 'py avagrhyam katham padam: çâkalyasye 'ngite nityam yathâ sotyânrte [i. 33.2] tathâ: brahma prajâpatis [xix. 9. 12] tv aha nâ 'vagrhyam kadâ oana: ananah pratishedhaç ca vayoç co'bhayatah param: indravayv [iii. 20. 6] ådishu katham dirgho yatra tad [na?] dr.cyate: dvandvamåtrenashedastvam ahorâtre nidarçanam.

The rule of the Vaj. Pr. (v. 28), which includes also our rules 50 and 52, is to the effect that dual copulative compounds whose first members end in a vowel arc not separable.

यस्य चोत्तरपदे दींघी व्यञ्जनादी ॥५०॥

50. Nor one which shows a long vowel before an initial consonant of the latter member of the compound.

The instances furnished by the commentator are ishtapûrtam (e. g. ii. 12.4), pitaputrâu (vi. 112.2), hasâmudâu (xiv. 2.43), dyôvâpṛthivî (e. g. ii. 1.4), dyâvâbhûmî (xviii. 1.31), and ushâsânaktà (e. g. v. 12.6). To these I add cunăsîrâ (iii. 17.5), sûryâmâsâu (iii. 29.5*), sûryâcandramasâu (vi. 28.3), and yajñâyajñiyam (viii. 10.13). To the same class, of dvandvas exempt from division, belongs prāṇāpānāu (e. g. ii. 16.1), although it does not show the peculiarities of form which this rule

² anityat.

^{*} In the edition, suryamo is a misprint.

demands, and therefore ought to be made the subject of a special precept: our treatise-makers and their commentator, apparently, have overlooked it. A single counter-example the commentator gives, viz. satyánrte iti satya-anrte (i. 33. 2). He adds a verse: irámívápurobhyaç¹ ca prakrtyá dirgha eva sah: hrasvasya yatra dirghatvam sa dvandvo ná 'vayrhyate; 'after irá, amívá, and purah [avagraha comes in], for in those cases the vowel is long hy nature; but where a short vowel is lengthened, there no division hy avagraha takes place.' This is a very blundering statement, so far as concerns the instances given in the first páda: purah, of course, could form no copulative compound; amíva forms none such in the Atharvan, and it also, though a feminine with a long final vowel, as a separate word, always shortens its final in composition (umíva-cátuna, e. g. i. 28. 1; amíva-han, e. g. RV. i. 18. 2); irâ, too. is found only in the compound irá-kshirá (x. 10. 6), which is not copulative.

The implication of dvandva from the preceding rule seems clearly made by the particle ca in this rule, and is supported by the connection as shown by the two following rules: the commentator, also, inserts dvandvasya after yasya in his paraphrase. Such compounds, then, as vigvanara, svavrk, virudh, sukara, etc., which are left undivided in the pada-text on account of the irregularly protracted final of their first

members, must he left to fall into the general gana of rule 54.

षोउशी संदेकात् ॥५१॥

51. Nor *shodaçin*, on account of the interfusion of the two members of the compound.

Or, it may be, 'on account of doubt'—that is to say, of doubt as to the form to which the constituents should be restored, their mode of combination being an entirely anomalous one. It is to be observed, however, that our treatise has itself (at i. 63) given special directions as to how shat and following daça are combined together, so that to the student of the Prâtiçâkhya the pada-reading shat-daça ought to occasion no difficulty. That the rule reads shodaçî instead of shodaça is surprising, since both words (each in but a single passage) occur in the text: the commentator cites them, as follows: ishtāpûrtasya: shodaçam (iii. 29. 1), shodaçî: sapta-râtraḥ (xi. 7. 11).

The Vaj. Pr. mentions shodaça in a rule (v. 37) containing a long

list of indivisible words.

ग्रकोरात्रे ॥ ५५ ॥

52. Nor ahorâtre.

The commentator's illustrations are ahorâtrâbhyâm: nakshatrebhyaḥ (vi. 128.3), and ahorâtre idam brûmaḥ (xi. 6.5). The Vâj. Pr. includes the word in the same rule with shoḍaça (v. 37).

There is nothing in the character of either ahoratre or shôdaça, so far as I can discover, which should withdraw them from the action of rule 50, and render their separate mention necessary.

ग्रञ्चतिज्ञरत्पर्वसु ॥५३॥

53. Nor the root anc: nor former constituents of a compound.

It is, if possible, even more surprising here than at rule 40 to find two so utterly heterogeneous matters put together in the same rule. We cannot suppose that the commentator would combine them, in statement and in exposition, unless he regarded them as composing a single precept; but, on the other hand, we have not the same warrant here as in the former case that his division is a correct one: there is nothing in the form of the rule which would absolutely forbid its simple division into two parts, without further change—although we should, in that case, expect rather $a\bar{n}cat\hat{a}u$ than $a\bar{n}cat\hat{i}$.

As illustrations of the inseparability of the root $a\bar{n}c$, we have given us $pr\hat{a}c\hat{i}h$ (e. g. v. 28. 11), $prat\hat{i}c\hat{i}$ (e. g. iii. 27. 3), and $ud\hat{i}c\hat{i}h$ (e. g. xii. 1. 31). All the compounds with this root are treated as indivisible by our pada-text: the Vaj. Pr. also (v. 30) declares the root inseparable, with

exception (v. 19) of a single derivative.

To show that, when new members are added to a compound, the existing division by avagraha of their former members is given up, the commentator instances comitâti-bhih: arishtatâti-bhih (iv. 13.5): compare arishta-tâtaye, cited above, under rule 20. The principle has been already sufficiently illustrated in these notes, under rule 10. The Vâj. Pr. has nothing corresponding to this part of our rule, which is, in fact, virtually superfluous, since the directions already given for the separation of a newly-added member might be understood as involving the suspension of the ancient division.

The commentator ends with a verse which seems to say precisely the opposite of the rule of his text: yatro 'bhe pratividhye te upajatum jaram ca yat, jaratâ 'vagrahah kârya rksâmâbhyâm nidar conam; 'when both members are severally separable, both the newly-added and the ancient, separation by avagraha is to be made of the ancient one: an instance is rk-samabhyam.' But this is mere nonsense, as it stands, the word cited being a case where the last-appended element is inseparable. as following a long vowel (see rule 33, above), and where, therefore, the division must be suffered to remain between the two original constituents of the compound. If the theme of declension had been rk-saman, instead of rksâma, we should have an instrumental dual rksâma-bhyâm, which would be a true illustration of the rule. One may conjecture that the last line originally read jare na 'vagrahah karya rksamabhyam nidar canam, and that it was amended to its present form by some copyist who knew that the Atharvan read, not rksama-bhyam, but rk--sâmâbhyâm, but who was careless enough to overlook the discordance which he thus introduced between the text and its comment.

समुद्रादिषु च ॥५४॥

54. Nor samudra etc.

The whole comment upon this rule is wanting in our manuscript: the copyist has again carelessly skipped from its first statement to its final

repetition before the rule next following. This, however, gives us reason to believe that the commentator had performed his work in his usual brief and unsatisfactory style, and had done very little toward filling up the gana. It would have been particularly curious and interesting to see how many and which of the words contained in the Atharvan the makers of the Prâtiçâkhya looked upon as fairly entitled to a division which the constructors of the pada-text had not admitted. The Vâj. Pr. (at v. 37) gives a list of such words for its text, but Weber finds it, as was to have been expected, both deficient and redundant. It is by no means easy to draw up a list which shall include all that ought to be received, and exclude all that ought to be left out; but I have looked through the Atharvan text with some care for this purpose, and trust that my filling up of the gana of the text will be found to comprehend all or nearly all of the matter to which the rule ought to

apply.

There is, in the first place, in this as in the other Vedic texts, a considerable class of compound words exhibiting an irregular prolongation of the final vowel of the former member, and which the constructors of the pada-text have chosen to leave unchanged, instead of separating them by avagraha and restoring the normal quantity of the altered Why they should be thus treated, however, in distinction from the words with which our treatise deals in the first section of its third chapter, no sufficient reason appears. They are as follows: apamarga (e. g. iv. 17.6: the word, by V. Pr. v. 21, is divisible), apashtha (iv. 6. 5: see above, ii. 95), ashthîvant (e. g. ii. 33. 5), idavatsara (vi. 55. 3: cf. V. Pr. v. 32), ubhayadant (e. g. v. 31. 3: divisible by V. Pr. v. 21), ubhayavin (e. g. v. 25.9: see above, under iv. 18), ekadaça (v. 16. 11: cf. V. Pr. v. 37), kakshîvant (e. g. iv. 29. 5: cf. V. Pr. v. 37), tatamaha (e. g. v. 24. 17), dvådaça (e.g. iv. 11.11: cf. V. Pr. v. 15), naraçansa (v. 27.3: cf. V. Pr. v. 37) and naraçansî (e. g. xiv. 1. 7), nîhâra (e. g. vi. 113. 2: cf. V. Pr. v. 37), prânâha (ix. 3. 4), prâvrta (e. g. xii. 5. 2: cf. V. Pr. v. 37), pravrsh (e. g. xii. 1. 46), marmavidh (xi. 10. 26: cf. iii. 3, iv. 68), vicvámitra (e. g. iv. 29. 5: cf. iii. 9 and V. Pr. v. 37), viçvanara (e. g. iv. 11. 7: cf. iii. 9 and V. Pr. v. 37) and vâiçvânara (e. g. i. 10. 4), vîrudh (e. g. i. 32. 1), cvâpad (e. g. viii. 5. 11: cf. iii. 10), cvâvidh (v. 13. 9: cf. iii. 3, iv. 68), sâranga (e. g. ii. 32. 2), sârathi (e. g. viii. 8. 23), sûkara (e. g. ii. 27. 2) sûnrtâ (e. g. iii. 20. 3), svâvrk (xviii. 1. 32), and hrdayavidh (viii. 6. 18: cf. iii. 3, iv. 68).

Another smaller class is composed of certain words which have as their first member a real or an apparent case of declension: such are anyedyus (i. 25. 4: cf. iv. 21), açumga (vi. 14. 3), gavishthira (iv. 29. 5: cf. V. Pr. v. 37), narishta (e. g. vii. 12. 2: cf. V. Pr. v. 37), patamga (e. g. vi. 31. 3), pitamaha (e. g. v. 5. 1), madhyamdina (e. g. iv. 11. 12), matariçvan* (e. g. v. 10. 8), and çitimga (xi. 5. 12).

The number is by no means an inconsiderable one of words whose division seems so naturally suggested by an etymology which is either incontestable or at least very plausible, that we are reasonably surprised

^{*} At v. 2. 9, all the manuscripts have mâtaribhvarî, which the edition, hardly with sufficient reason, has amended to mâtariçvarî: it is, like the latter, left undivided.

that they were not divided by the Hindu grammarians. Of these, I name anavâya (viii. 4. 2), anushthu (xii. 4. 45: probably regarded as formed by an inseparable suffix), apâna (e. g. ii. 28. 3: cf. nnder iv. 39), abhishti (e. g. i. 6. 1), avarti (e. g. iv. 34. 3), avaskava (ii. 31, 4), acvatara (e. g. viii. 8. 22: cf. under iv. 16), asvaga (xii. 5. 45), aghrni (vii. 9. 2), adhî (vi. 131. 1 etc.: Rik pada, â-dhî), ânushak (iv. 32. 1), âprî (xi. 7. 19), âyudha (e. g. iii. 19. 5: cf. V. Pr. v. 37), ârti (e. g. iii. 31. 2), ârpita (e. g. vi. 112. 3: at viii. 9. 19 only, we have â-árpitâni), âçîvisha (xii. 5. 34), asakti (xiv. 1.26), asikta (xii. 3.25: probably the absence of division is here only an error of the manuscript; we have a '-siktam at iv. 7. 1), uttâna (e. g. ix. 9. 14), rtvij (e. g. vi. 2. 1), oshadhi (e. g. i. 23. 1 : cf. V. Pr. v. 35), gopå (e. g. iii. 8. 4: cf. V. Pr. v. 37), gopitha (e. g. v. 9. 7), candramas (e. g. v. 24. 10: cf. V. Pr. v. 37), dâyâda (v. 18. 6, 14), nyagrodha (e.g. iv. 37.4: cf. V.Pr. v. 37), purodaça (e.g. ix. 6.12: see i. 63: cf. V. Pr. v. 37), prâna (e.g. ii. 12. 7: cf. under iv. 39), prâyaccitti (xiv. 1. 30), vivasvant (e. g. xi. 6. 2), vishtap (e. g. x. 10. 31: cf. V. Pr. v. 41), vishtambha (xiii. 4. 10: cf. V. Pr. v. 41), vishtarin (iv. 34. 1 etc.), cincumara (xi. 2. 25), graddhå (e. g. v. 7. 5), sabhå (e. g. iv. 21. 6), samantám (vi. 8. 1: cf. iv. 38), samudra (e. g. i. 3. 8: cf. V. Pr. v. 37), surabhi (e. g. vi. 124. 3: cf. V. Pr. v. 37), sthapati (ii. 32. 4), svadha (e. g. ii. 29. 7), svapati (viii. 6. 16), svasti (e. g. i. 30. 2), and haridrava (i. 22. 4). It is not hard to conjecture, in the case of some of these words, reasons which may have led to their being treated as exceptional cases, but in many of them no such reason is apparent, and in a part, at least, we are compelled to suppose that the composition was fully recognized, and the division neglected for some arbitrary and unexplained canse. That the four compounds of pronominal elements cana, nahi, nakis, and makis were lest by the pada in their sanhita form is not to be wondered at: three of them are noted also by the Vaj. Pr. (v. 35, 37) as indivisible.

There yet remains quite a list of compounds and derivatives, the division of which may plausibly be supposed to have been neglected from uncertainty of etymology, anomaly of form, difficulty of restoring the original constituents, or the like: while yet, in most cases, we should not have been surprised to see the constructors of the pada making an attempt at their analysis. In drawing up this part of the list, especially, I may very possibly have omitted to note down some words of the text which to another would seem not less worthy of mention than those given: the series, as collected by me, is akûpâra (v. 17.1), ajagara (e. g. iv. 15.7: cf. V. Pr. v. 37), adomada (vi. 63.1) and adomadha (viii. 2. 18), anadvâh (e. g. iii. 11. 5: cf. V. Pr. v. 37), anrkshara (e. g. xiv. 1. 34), abhiçu (e. g. vi. 137. 2), abhra (e. g. iv. 15. 1: cf. V. Pr. v. 34), avadya (e. g. ii. 10. 6), åtura (vi. 101. 2), åmikshå (e. g. ix. 4. 4), åhanas (e. g. iv. 30. 6), udárathi (iv. 7. 3), urvaçî (xviii. 3. 23), karmára (iii. 5. 6: cf. V. Pr. v. 37), karçapha (iii. 9. 1), kasarnîla (x. 4. 5, 17), kucara (e. g. vii. 26. 2: cf. V. Pr. v. 37), krkaváku (v. 31. 2), godhá (iv. 3. 6: cf. V. Pr. v. 37), jashkamada (xi. 9. 9), daçonasi (x. 4. 17), duchuna (e. g. v. 17. 4: cf. ii. 61), duradabhna (xii. 4. 4, 19), duraha (viii. 8. 24), druvaya (e. g. v. 20. 2: cf. under iv. 18), dhîvan (iii. 5. 6), padbîça (e. g. vi. 96. 2), pandaga (viii. 6. 16), prânada (iv. 35. 5), maryâda (e. g. v. 1. 6), mahîluka (x. 10. 6), ratharvî (x. 4. 5), vansaga (xviii. 3. 36), valaga (e. g.

v. 31. 4: cf. V. Pr. v. 35), viçvâhâ (e. g. vii. 50. 1: cf. V. Pr. v. 37), vyâ-ghra (e. g. iv. 3. 1: cf. V. Pr. v. 37), cândadûrva (xviii. 3. 6), sadyas (e. g. viii. 10. 21), and svâhâ (e. g. ii. 16. 1).

The Vâj. Pr. (v. 37) notes a conple of words as indivisible which are found divided in the Atharvan: they are *upa-sti* (e. g. iii. 5. 6) and *pa-vîra-vant* (iii. 17. 3). In like manner, samvatsara, which the Rik pada does not analyze, is in our text uniformly written sam-vatsara (e. g. iii. 10. 9). One or two other such cases of discordance among the several pada-texts are pointed out in the notes to the different rules: but there is, in general, such close agreement among them as to show conclusively that the pada method of text-analysis, in its details as well as in its main plan, is the production of a single teacher, or of a single school.

It may be well to add here, per contra, a few of the cases in which the pada-text makes unintelligible or palpably erroneons divisions of words: I have noted, as the most striking instances of this kind, anam-gurch (viii. 6. 22), anapa-dyatâm (iv. 17. 6), jighat-svam (ii. 14. 1), go-pana (xii. 4. 10), cam-opya (i. 14. 3), hr-dyota (i. 22. 1) and hr-dyotana (v. 20. 12). The peculiar form, accentuation, and division of two passages in the fourteenth book—cúbham: yatîh (xiv. 1. 32) and pâtim: yatîh* (xiv. 2. 52)—is also worthy of remark in connection with this subject.

वृद्धेनैका सर्रा स्वरालेन ॥ ५५॥

55. Nor is a member which has suffered *crddhi* separable, if it be monosyllabic and end in a vowel.

The commentator's examples of an inseparable vriddhied initial syllable are sapatnah (ii. 7. 2), saumanasah (e. g. iii. 30. 7), saumanasam (e. g. xiii. 1. 19), saudhanvanah (vi. 47. 3), traistubham (ix. 10. 1), saubhagam (e.g. ii. 36. 1), and saubhagyam (e.g. xiv. 1. 42). His counter-example, brought forward to show that the inseparable member must have suffered vrddhi, is su-parnah (e.g. i. 24. 1); to show that it must be monosyllabic, they are âirâ-vatah (viii. 10. 29), mârta-vatsam (viii. 6. 26), and vadhu-yam (e.g. xiv. 1.29); to show that it must end in a vowel, they are naih-badhyena: havisha (vi. 75. 1) and dauh-svapnyam: dâuh-jîvityam (iv. 17.5). I add, in the farther illustration of the inseparable class, vâimanasya (v. 21. 1) and prâhrâdi (viii. 10. 22); of the separable class, sâm-itya (viii. 10.6), sâm-râjya (xiv. 1.43), pâurna-mâsî (vii. 80. 1), saurya-varcasa (viii. 10. 27), and avaira-hatya (vi. 29. 3). The rule is, I believe, carefully observed throughout the whole of the Atharvan text, and the Vaj. Pr. (v. 29) has one precisely corresponding; nor have I noted any cases in which the usage of the Rik padatext was not in accordance with it. Its somewhat arbitrary character, however, is patent.

The commentator again closes his exposition with a verse: avagrhyât padâd yamtu taddhito vrddhimân bhavet: ekât vrddhisvarânteshu na câi 'vâ 'vagraho bhavet: àirâvato mûrtavatsam vâdhûyam ca nidarçanât.

^{*} In this passage, the printed text reade patim yati'h, but without any support from the mauuscripts.

A little amendment makes this mean, in restatement of our rule, 'where a taddhita suffix requiring vrddhi is appended to a divisible word, separation is not made of a member which is monosyllabic and ends in a vowel.'

म्रवर्णान्तेनैकाचरेण प्रतिषिद्धेनाप्रयावादिवर्जम् ॥५६॥

56. Nor a monosyllabic member ending in a or a and negatived—excepting in the case of aprayavan etc.

The form of statement which our treatise has adopted for its rule respecting the separability of negative compounds is not particularly well The general usage of the Atharvan pada-text, as regards such compounds, is as follows. The negative prefix a or an is not itself ever separated by avagraha from the word to which it is attached: we have asat, anrta, etc. If, however, the word negatived is already a compound, the negative prefix is in almost all cases treated like any other added inseparable element, and leaves the prior division of the compound unaffected; we have parâ-jita and aparâ-jita, vîra-han and avîra-han, etc. A few exceptions to this mode of treatment occur, and with them it is the province of our rule to deal. The preposition a, with an prefixed, is always made inseparable: thus we find a-srava, but anasrava (e. g. ii. 3. 2, 3), and, in like manner, anajanant, anadhrshya, anarambhana. anadishta, and anavrtta. The same analogy is followed by the negative forms of compounds with sa, and by a single one of those with praviz. aprajasam (e. g. vii. 35. 3)—and by these alone. The Vaj. Pr., then, which declares (v. 24, 25) the negative prefix inseparable when alone and when followed by â, leaving other rare and exceptional cases to be provided for as such, expresses more truly the usage of the text. commentator gives us, first, as illustrations of the rule, the only two cases of negative compounds with sa which are found to occur in our text: they are asabandhuh (vi. 15.2) and asapainah (e.g. i. 19.4): the latter is mentioned by the Vai. Pr. (v. 37) in its list of indivisible words. along with asajata; asabandhu, according to Weber (p. 305, marginal note), is treated as divisible in the White Yajus.* The commentator adds aprajah, aprajatah, but neither of the words is to be found in the Atharvan. As counter-examples, he gives first avi-dvesham: krnomi: vah (iii. 30. 1), to show that the negatived member must end in α or $\hat{\alpha}$ in order to be inseparable; secondly, to show that, if ending in a or â, it must also be monosyllabic, he gives agne: akravya-at (xii. 2. 3); and thirdly, as evidence that a monosyllabic member ending in the vowels specified is not separable unless negatived, he cites yah: sa-patnah (i. 19. 4). Finally, he partly fills up the gona, with apra-yavan (iii. 5. 1), apra--mâdam (e. g. xii. 1. 7), apra-hitáu (vi. 29. 2), and apra-cankaçáh (viii. 6. 16): I have noted in addition only apra-yuchan (e. g. ii. 6. 3). close np the exposition, is added the verse ekaksharasavarnantam yad bhavet padam uttaram: tat padam na 'vagrhniyad aprayavadivarjitam;

^{*} In one of the two cases where it occurs in our own text (vi. 54. 8), the pada divides it, asa-bandhuh: this, however, is probably a copyist's error.

'if the word following the negative particle be monosyllabic and end in a vowel homogeneous with it, it is not to be separated, except in the cases aprayavan etc.'

प्राणित प्राणित ॥५७॥

57. Nor are prânati and prânanti divided.

The commentator cites yah: pranati (iv. 30. 4), yat: ca: pranati (xi. 4. 10). yina: pranati (i. 32. 1), and yinat: pranati (xiii. 3. 3). But the rule is an exceedingly insufficient exposition of the treatment by the paia-text of the forms of the root an with the prefix pra. Division is, in fact, omitted only when the verb, and not the preposition, has the accent; but then, not in the two forms specified only, but also in the participles—as pranat (e. g. x. 8. 2), pranat (xi. 4. 8), pranat (iv. 2. 2), pranat (iii. 31. 9), and pranat (viii. 9. 9)—and in the causative, as pranay (xiii. 3. 3). On the other hand, if the prefix takes the accent, it is disjoined from the verb, according to the general usage in such cases, and we read pra: ana (iii. 31. 9), and ana (xi. 8. 19. xi. 4. 14). If the root is compounded with ana, also, the same usage is followed, and we have apanat (xi. 4. 8) and anat (xi. 4. 14).

The Vaj. Pr. (v. 33), as acutely amended by Weber, gives a nearly corresponding precept, although it appears (Weber, p. 303, marginal note) that the text to which it belongs contains no verbal forms in which

the division requires to be made.

संपरिभ्यां सकारादी करोती ॥५०॥

58. Nor are sam and pari separated from the root kar, if the latter begins with s.

The commentator cites the only words occurring in our text in which the root kar has the sibilant prefixed to it, in composition with the two specified prefixes: they are sanskrtatram (iv. 21. 4), sanskrtam (xi. 1. 35), and parishkrta (e. g ix. 3. 10).

The doctrine of the Vaj. Pr. (v. 43) is the same, so far as concerns the compounds of som and kar; but it apparently allows the division

of parishkrta (which also occurs in its text: see iii. 52),

सर्वस्मिन्नेवागमसकारादौ तुविष्टमवर्जम् ॥५१॥

59. Nor is division made in any case where a s is inserted—except in tuvishtama.

The instances which the commentator gives of the insertion of s as an augment (agama) between the two members of a compound word, and of the consequent unresolvability of the compound, are ataskaram (xii 1.47), taskarah (e. g. iv. 3.2). vanuspatih (e. g. iv. 3.1), and by haspatih (e. g. ii. 13.2). Their citation under such a precept implies the acceptance of some such etymological theories of their derivation and form as are given by the Vaj. Pr. (iii. 49, 51), which explains tas-

kara and brhaspati as from tat-kara and brhat-pati respectively, with loss of t and insertion of s, and vanaspati as from vana-pati, with insertion of s; but it is unnecessary to remark that such explanations are futile: taskara is obscure, and the other two are without much doubt compounds of pati with the preceding genitive of an obsolete noun, being analogous with brahmanas pati, vacas pati, cubhas pati, etc.; and they would doubtless be separated by the pada-text into two independent words, like these, but for their frequency of occurrence, and, yet more, the irregularity of the accent of their former members as genitives of a monosyllabic theme. The counter-example, which the commentator also cites—indroh patis tuvishtamah (vi. 33. 3: p. tuvi-tamah)—has been made the special subject of one of our previous rules (iii. 96).

विश्पतिर्विश्पत्नी ॥ ६०॥

60. Nor in viçpati and viçpatnî.

The commentator cites instances of the occurrence of each of these words—viz. svaptu: vicpatih (ix. 5. 6) and yû: vicpathî (vii. 46. 3)—and adds a verse in explanation of their etymology, as follows: vicpatir vicpathî yasya patir viçvasya vicpatih: vacabdo lupyate patyûu viçûm vû patir vicpatih. This gives us our option as to whether we will take vicpati to represent vicvapati or viçûm pati: we shall not be slow to choose the latter. The indivisibility of the compound is doubtless owing to the rarity of the consonantal conjunction cp, and the embarrassment which would accompany the restoration of the sanhitû form from a pada-reading vit-pati.

ददाती च तकारादी ॥ ६१॥

61. Nor is the root da separated when it begins with t.

We have given us once more, under this rule, the whole series of derivatives presenting the root $d\hat{a}$ reduced to the form of a simple t which the commentary to iii. 11, above, presented, and of which apratittam (vi. 117. 1) and partitah (vi. 92. 2) are the only ones found to occur in the Atharvan. The difficulty of making out an acceptable analysis of them for the pada-text is reason enough for their being treated in that text as indivisibles.

The Vâj. Pr. marks parîtta as indivisible at v. 45.

उदो कृतिक्र्तिस्थास्तम्भिषु ॥ ६२ ॥

62. Nor the roots han, har, stha, and stambh, after the preposition ud.

For the combination of han with ud, the commentator cites uddhatah; no such word, however, is to be found in the Atharvan, nor does any other combination of these elements occur there (except at xiv. 2. 16, where the preposition is separated from the root by the intervention

of other words). For ud + har, the selected instances are uddhrta and uddhriyamana (both xii. 5.34), and $uddhrteshu^*$ (xv. 12.1). The padatext, however, appears to treat the combinations as inseparable only where there is actual composition, as in the participles, and as would also be the case if the unaccented preposition preceded the accented verb, for we find ut:hara in three passages (iv. 14.7. ix. 6.19. xii. 3.36). For stha with ud, two cases are cited, viz. utthau (ix. 4.14) and utthitah (e. g. vi. 43.2): it has already been noticed (under ii. 18) that where the preposition would be, by the general rules of combination, disjoined from the verb, it is actually so disjoined, and that the pada accordingly has ut:sthuh, ut:sthapaya, etc., where the sanhita has ut thuh, ut:sthapaya, etc., where the sanhita has ut thuh, ut:sthapaya, etc., where the utthapaya etc. For utthapaya etc., where the utthapaya etc. where the utthapaya etc. For utthapaya etc., where the utthapaya etc. utthapaya etc.

The Vaj. Pr. takes note of this class of cases at v. 38, but says nothing of the roots han and har; nor is any reason apparent why their compounds should be treated in this peculiar manner. One would have thought it especially desirable that the pada-text should separate ut-hrta etc., in order to mark the forms as coming from the root har, and not

from dhar.

द्धाती च इकारादी ॥ ६३ ॥

63. Nor the root dhâ, in a form beginning with h.

The commentator illustrates with ye: dagdhah: ye: ca: uddhitah (xviii. 2. 34), and we have also uddhita at ix. 3. 6: no finite verbal forms of this root as compounded with the preposition ud are found in the Atharvan. We meet, however, with uddhi once (viii. 8. 22), and onr pada-text leaves it undivided, although it does not fall under this rule, being composed of ud and dhi.

The same rule in the Vaj. Pr. (v. 38) might cover both this and the preceding one of our treatise; but no such forms as uddhita are there

cited by the commentator.

ज्ञास्पत्यम् ॥ ६४ ॥

64. Nor is jâspatyam divided.

The commentator cites the only passage in which the word in question occurs: sam: jâhpatyam (vii. 73. 10). This rule and one in the next section (iv. 83), taken together, show that the trne pada reading recognized by our treatise is jâhpatyam; our pada manuscript, however, gives jâh-patyam, with avagraha. The commentator adds an attempt at an etymological explanation of the form: jâyâpatyam: yâ-cabdo lupyate: patyâu: asanturûshmâçu dvyaksharo jâyâh vâ jâbhâvah. Although much corrupted, it is evident that this teaches the same etymology with that given by the Vâj. Pr. (at iv. 39): jâspatya for jâyâspatya.

^{*} Our pada manuscript writes all these words with simple dh, instead of ddh: thus, udhrite etc.

मनुष्यत् ॥ ६५ ॥

65. Nor manushyat.

The commentator cites the passage containing the word—idå manushyat (v. 12. 8)—and adds an explanation of its form, as follows: manushyavan manushyat: yaçabdo lupyate vukârasya ca yakârah; 'manushyat is properly manushyavat: ya is dropped, and v converted into y.' It is unfortunate that, the Atharvan form of the word being thus fully established, and its treatment having been prescribed by the Prâtiçâkhya with so much care, it should have been altered in the edited text to manushvat, even though the latter is theoretically decidedly the preferable reading, and is presented by the Rig-Veda in the corresponding passage (x. 110. 8).

त्रेधा ॥ ६६॥

66. Nor tredhâ.

This word, which our pada-text, like that of the Rig-Veda (and, I presume, the other Vcdas also), always leaves undivided, is an exception

under rule 13 of this chapter.

The manuscript has a lacuna here, omitting at least the instances cited under this rule, the first statement of the one next following, its paraphrase, and perhaps a part of the illustrations belonging to it. It is impossible to say, of course, whether a rule or two has not dropped out also, affecting one or more of the words which I have introduced into the gana of rule 54; but this is not at all certain, nor would the loss be of much consequence, considering the quality of the rules in this part of the section.

संज्ञायाम् ॥ ६७॥

67. Nor a specific appellative.

The term samjāa is evidently used by our treatise in the same sense as] by Pânini (see Böhtlingk's glossary to Pânini, sub verbo) and the Vâj. Pr. (iv. 96): it might be tolerably rendered by our term "proper name." The commentator's illustrations—which, as remarked in the preceding note, follow immediately upon the paraphrase of rule 66, and are perhaps therefore defective—are acvatthah: nyagrodhah (iv. 37. 4: cf. V. Pr. v. 37), kaçyapah (e. g. iv. 37. 1), and viçvâmitrah (xviii. 3. 15). He adds: bahulam iti ca vaktavyam; 'it should have been said that with regard to samjaa usage varies; and he gives, as instances of proper names which are separable, jamadagnyâtharvana (not in AV.), jamat-agne (xviii. 3. 16), bharat-vajam (iv. 29. 5), parâ-çara (vi. 65. 1), and vâma-deva (xviii. 3. 16). The amendment is made with exceeding good reason, for the rule is absurdly comprehensive in its form of statement. It can only be said with truth that the being a samjāa is a circumstance which rather favors non-division, helping to excuse the padatext from attempting the analysis of an obscure or anomalously formed word.

व्यधौ ॥ ६८॥

68. Nor is the root vyadh separated.

Compounds with this root have already been made the subject of one of our rules (iii. 3), and it has been there explained that the usage of our pada-text is to leave undivided such of them as show a protracted vowel before the root. The commentator cites here two of the three instances which the Atharvan offers, viz. hṛdayāvidham (viii. 6. 18) and marmāridham (xi. 10. 26). The rule is too broadly stated, and should have been restricted by him, as was the preceding one: it is only when a protracted vowel precedes the root that the compound is left undivided; and we have, for instance, vi-vyādhin, abhi-vyādhin (both i. 19. 1), and kṛta-vyadhanî (v. 14. 9).

दशौ सर्वनाम्नैकारात्रेन ॥ ६१ ॥

69. Nor the root drç, when compounded with a pronoun ending in a or i.

The form of this rule is in one respect very unusual: such a thing as the fusion into a diphthong of two vowels of which the specification is desired is elsewhere unknown. If the reading were slightly amended, to sarvanamnekarantena, it would answer all the purposes of a rule of our Praticakhya, for the Atharva-Veda presents only a single one of the compounds which it appears in its present form to contemplate, viz. idre (e.g. iii. 1.2). The commentator, however, paraphrases as I have translated, and gives the instances tadrk, tadreah, yadrk, yadreah, idrk (iv. 27.6), and idreah.

The Vaj. Pr. (v. 37) instances îdrn and anyâdrn among indivisible

words.

सकावाउने ॥७०॥

70. Nor the root sah, when it ends in ât.

Under this rule, the commentator gives us once more the same series of compounds of sah which we have had above, under rules ii. 82 and iii. 1, and which it is unnecessary to repeat here.

Compare Vâj. Pr. v. 30.

अव्यवानाम् ॥७१॥

71. Nor are indeclinables divided.

As examples of indivisible indeclinables, the commentator offers us sanutah: yuyotu (vii. 92. 1), prâtah (e. g. iii. 16. 1), uccâih (iv. 1. 3), uccât (uccâ, xiii. 2. 36), nîcâih (e. g. iv. 1. 3), and nîcât (nîcâ, e. g. i. 21. 2). The rule does anything but credit to the acuteness of the authors of the Prâtiçâkhya, for no word in the text which would otherwise be entitled to avagraha is left unresolved on account of its being an indeclinable.

स्राशा दिशि ॥७५॥

72. Nor âçâ, when it means 'region.'

The word $\hat{a}'c\hat{a}$, meaning 'region,' comes from the root ac, and furnishes no ground for a division by the pada-text: $\hat{a}c\hat{a}'$, on the other hand, meaning 'hope, desire,' is a later form of $\hat{a}cas$, and comes from the root cans, with prefix \hat{a} ; hence it is divisible. The eommentator cites the words and phrases $\hat{a}'c\hat{a}bhya\hat{n}$ (x. 5. 29), $\hat{a}'c\hat{a}n\hat{a}m$ (i. 31. 1), $\hat{a}'c\hat{a}\hat{h}:\hat{a}nu$ (vii. 9. 2), and finally, by way of counter-example, $abhi-dh\hat{a}-v\hat{a}mi:\hat{a}-c\hat{a}'m$ (vi. 119. 3).

The signature of the section is merely caturthasya dvitiyah padah.

प्रकृतिदर्शनं समापत्तिः ॥७३॥

73. Restoration is exhibition of the natural form.

This is simply a definition of the term samāpatti, which I have ventured, instead of transferring, to translate by 'restoration.' It means, as the next rule will show, the reinstating, in the pada and krama texts, of that form of a word which is looked upon as the original and normal one, to the rejection of the anomalies of Vedic orthoepy. It does not occur in any other of the grammatical treatises, although its correspondent samāpādya (see below, rules 117, 124) is once found in one of the later chapters of the Rik Pr. (xiii. 11, 12), in a passage so obscure, without the light which the treatment of the subject in our own Prātiçākhya casts upon it, that its meaning has, very naturally, been misapprehended by the learned editor.

षवणवोपाचारदीर्घढुवलोपान्पदानां चर्चापरिकारयोः समापत्तिः ॥७४॥

74. In the repetitions of the pada and krama texts, restoration of the natural form is made where s has been converted into sh, n into n, visarjanîya before k and p into s, where a vowel has been lengthened, t or th made lingual, an element omitted, or final n converted into visarjanîya.

Most of the technical terms of this rule mect us here for the first time, and several of them are not employed elsewhere in our treatise. Carcá (see iv. 123) designates the repetition, with iti interposed, made in the pada text of a divisible compound which is also pragrhya, or which ends in a vowel not subject to the ordinary rules of combination: for example, salyanrié iti sulya-anrié (i. 33.2); parihara (see iv. 117) is the like repetition made in the krama-text of a pragrhya, a divisible compound, a word requiring restoration to its natural form, and the last word before a pause. The former term is employed in a like sense by the Vâj Pr. (e. g. iii. 19); the latter is peculiar to our treatise, being replaced in the others by pariyraha and sthitopasthita. Upâcâra, 'the

conversion of visarjaniya into a sibilant before k and p' (by ii. 62 etc.), corresponds to the upācāra and upācārita of the Rik Pr. (xiii. 12, iv. 14), and ānpada is the term employed by the same treatise (iv. 27) to designate the conversion into visarjaniya, and consequent loss, of a final n before a following vowel, as tanght in our rule ii. 27. Shatva, natva, and tutva are of obvious derivation and significance, nor is there anything calling for remark in their form, excepting the u in tutva, which identifies the term with a Paninean symbol (viii. 4. 41: shtunā shtuh*).

A quite embarrassing question now presents itself, in connection with the part of the text contained in this and the following rules; namely, with reference to the constitution of the pada-text which they imply. The actual pada-text of our manuscripts is very sparing in its use of carca, or repetition with iti interposed: it avails itself of that expedient only in the case already referred to as prescribed by iv. 123, or when a pragrhya is likewise avagrhya. The Rik pada employs it in one additional case; namely, when a word ends in a visarjaniya which is riphita, or liable to pass into r before a sonant, but which does not actually become r in the sanhita: it would read, for example, at ii. 32. 1 (where the Atharvan pada has simply antáh), antár ity antáh. The Vajasanevi-Sanhità is, according to the rules of its Pratiçakhya (iv. 17-22)—with which, in the absence of any testimony from Weber to the contrary, we must suppose the usage of the known manuscripts to correspond—very much more liberal in its employment of the repetition; not only in the two cases where this is practised in the Rik pada, but also in the case of a simple pragrhya (thus it says dvé iti dvé, where Atharvan and Rik would give simply dvė iti), in that of a word which contains a lengthened vowel or a lingualized consonant, and even in that of a mere divisible compound, it performs carea. In short, it repeats in pada-text all that is repeated in krama-text, excepting (by iv. 21) su and the final word of a sentence. The precept of the Vaj. Pr. corresponding to this one of ours is to be found implied in iii. 18, 19, where direction is given that in the repetitions of the pada-text the remaining rules of the chapter should not be observed—they being precisely the ones which teach the changes which our precept specifies in detail. Now when we find pnt forth in our treatise, as its leading and principal direction for the restoration of the natural form in pada, a rule like the one here given, which classes pada repetitions and krama repetitions together, and corresponds, as regards the pada, so nearly with the Vaj. Pr., we cannot help suspecting that it contemplates a pada-text in which, as in that of the Vaj. Sanhita, the repetitions of krama and pada extend over nearly the same classes of cases. It is actually the fact that, if we allow the pada text to be of the form in which our manuscripts give it, there are but about half a dozen words in the whole Atharvan text to which this rule and the two following, all together, have any application: while, on the other hand, the Praticakhya is found to give no direction at all for

^{*} Shtu and shatva are also used by the little krama treatise belonging to the Rig-Veda, and called the Upalekha (Upalekha, de kramapatha libellus. Textum Sanscriticum recensuit, varietatem lectionis, prolegomena, versionem Latinam, notas, indicem adjecti Dr. Guil. Pertsch. Berlin: 1854. 8vo), to which we shall, in the sequel, have frequent occasion to refer.

the use of iti alone in pada after a pragrhya, or for the innumerable restitutions of natural form which are made in words not repeated. I find myself. I must acknowledge, hardly able to avoid the conclusion that this part of our Prâticâkhya was framed to suit a pada-text in which all pragrhyas, divisible words, and words requiring restoration to normal form, were alike repeated, or suffered carca: such seems to me to be the only intelligible and consistent interpretation of its rules. That the fourth section of the chapter contains a direction for carea agreeing with the nature of our extant pada-text, would find its explanation in the evident character of that section as a foreign addition to the main body of the work; we should have to assume that the school to which the treatise as a whole belonged, in its present form, framed its pada-text in the manner there taught, and probably suffered that rule to take the place of one of another character formerly contained in this section, and now omitted from it; while yet they did not so recast the section as to adapt it fully to their new method of construction of the This may seem a violent and improbable supposition; but it appears to me, after making every possible attempt to avoid it, to involve less difficulty than the interpretation of the rules of this section in such a manner as to make them suit the pada-text of the manuscripts.

The true illustrations of our rule, then, would be of the nature of the following: for the conversion of s to sh, in vasosh pate (i. 1. 2), vasor iti vasoh; in vidmo shu (i. 2. 1), sv iti su; in vy ashahanta (iii. 10. 12), asahante'ty asahanta: for the conversion of n to n, in pari nah (i. 2. 2), na iti nah; in pra'naikshit (ii. 7. 1), anaikshit ity anaikshit: for the conversion of visarjaniya to s before k and p, in tatas pari (i. 10. 1), tata iti tatah; in tokebhyas kṛdhi (i. 13. 2), tokebhyu iti tokebhyah: for the lengthening of a vowel, in vidma çarasya (i. 2. 1), vidme'ti vidma; in yavaya (i. 2. 3), yavaye'ti yavaya: for the lingualization of dental mates, in bahish te (i. 3. 1), ta iti te; in vi tashthe (ix. 10. 19), tastha iti tasthe: for omission of an element, in ut thuh (vii. 52. 2), sthur iti sthuh: for the conversion of final n to visarjaniya and its consequent omission, in mahan asi (i. 20. 4), mahan iti mahan.

One other solution of our difficulties, less satisfactory, but also less violent, deserves to be suggested. If we could omit the words carcáparihârayoh from the rule altogether, leaving the latter to authorize a restoration of normal form in the pada generally, we could perhaps make shift to get along with such inconcinnities and omissions as would still remain—of which the principal would be that the treatise made no provision for the use of iti after a pranthya word, and that it did not direct what form words should have in the numerous repetitions of the krama-text.

The commentator, offering no explanation of the rule, gives a series of compound words in illustration of it, which belong more properly under the following rules; and to the next, accordingly, I shall take the liberty of relegating them.

प्रवपदिनिमित्तानां च ॥ ७५ ॥

75. And also, where the cause of the conversion stands in a former member of a compound.

The commentator's paraphrase is simply pûrvapadanimittânâm ca shatvadinam samapattir bhavati: 'and restoration is made of the conversions detailed in the preceding rule when their cause stands in a former member of a compound.' He cites no examples, but says etany eva 'dâharanani, 'the illustrations are those already given:' namely, under the preceding rule. According to his exposition, then, the present rule would seem merely an explanatory appendage to its predecessor. this is clearly inadmissible: not only ought we to have it, in that case, combined with the other, so as to form part of it, but, more especially, it would not contain the particle ca, 'and,' which positively stamps it as something added to the other. We cannot avoid, as it seems to me, understanding rule 74 of the abnormal changes of disjoined and independent words, and rule 75 of such as are produced by an altering infinence in the prior member of a compound. The illustrations which the commentator offered under the other rule, and which do, in fact, in good part appertain to this, are as follows: conversion of s to sh, nisheranam: nisecanam iti ni-secanam (i. 3. 1 etc.: our pada, simply ni-secanam); conversion of n to n, parayanam: parayanam ili para-ayanam (e.g. i. 34. 3: p. parâ-ayanam); conversion of visarjaniya to a sibilant, adhaspadam: adhahpadam ity adhuh padam (e.g. ii. 7.2: p. adhah padam); prolongation of a vowel, abhivartena: abhivartene 'tŷ abhi-vartena (i. 29.1: p. abhi-vartena); conversion of dental mnte to lingual, yo vishtabhnati: vistabhnatî 'ti vi-stabhnati (xiii. 1. 25: p. vi-stabhnati); omission, cepaharshanim: cepoharshanim iti cepah harshanim (iv. 4.1: p. cepah harshanîm: see above, ii. 56); and loss of final n, salarrkan iva: salavrkan ive 'ti salavrkan-iva (ii. 27.5: p. salavrkan-iva). The commentator does not state whether he takes his instances from the pada or from the krama text: according to the construction of our present pada, they could only come from a krama; if the conclusion drawn above as to the original pada contemplated by our text is correct, they may be illustrations of both. In the very rare cases in which the extant pada-text has occasion to repeat words showing any of the abnormal changes which the rule mentions, it restores the normal form: thus we have dustano iti duh-tana (iv. 7.3: s. dushtano), pratisthe iti prati-sthe (iv. 26. 1, 2; s. pratishthe), ayushpatnî* ity ayuh patnî (v. 9.8: s. ayushpatnî), vistabhite iti vi-stabhite (x. 8.2: s. vishtabhite), and pathisadi iti pathi--sadî (xviii. 2. 12: s. pathishadî).

The commentator adds a couple of counter-examples—viz. parirapinam iti pari-rapinam (v. 7.2) and sutramanam iti su-tramanam (vii. 6.3)—to show that, when the effecting cause of an alteration of form is in the same member of a compound with the alteration itself, the latter is not reversed, and the normal form restored, by the repetition and

resolution of the word.

^{*} Our pada-MSS. write the word as I have given it, apparently infinging the rule; but I have no question that the th here is only an attempt to represent the labial spirant, or upadhmániya, which the theory of the Práticákhya requires (by ii. 40) in such a place: another like case is chandashpakshe iti chandash pakshe (viii. 9. 12: s. chandashpakshe—or, more properly, chandaspakshe—by ii. 62). Before the iti, where no pause of aragraha intervenes between the two members of the compound, they are, of course, to be put in simple sandhi with one another: thus, dustano, cepoharshanin, and, as we ought strictly to read, adhappadam; we have also sadohavirdháne iti sadah-havirdháne at xii, 1. 38.

इंग्यानाम् ॥७६॥

76. And where the compound is divisible.

That is to say, restoration to the normal form is made only in such compounds as are by the puda-text resolved into their constituent elements. Those words which, although they may be acknowledged compounds, are left undivided on account of special anomalies of form, retain also their irregularities of orthoppy. The commentator, in his paraphrase, represents ingyanam by ingyamananam avagrhyamananam. forms which undergo division, or separation by avagraha,' and adds again etâny evo 'dâharanâni, 'the examples are those already given'namely, under rule 74 (here presented under rule 75). Of counter-examples, however, he furnishes two-viz. parishkṛtâ (e. g. ix. 3. 10) and prananti (e.g. i. 32.1)—and then cites a verse which contains two more: aningyatvât samâpattir eshu nelapadeshu tu: utpanne 'vagrahe câ 'tra somapattis tathâi 'va ca: sunrtâvad apâshthavad ity udâharet. The commentator's own instances belong to the class of those in which a cause in the former member of the compound produces an effect in the latter member: the words, if divided, would read pari-skrtå, pra--ananti: in the other two, the irregularities are mainly in the first members themselves, and, if sûnrtâ and apâshiha were resolvable, we should read (according to the next rule), with restoration, sunria-vat, apastha-vat, instead of, as now, sunrtâ-vat (e.g. v. 20. 6), apashtha-vat (xiv. 1.29). The rule, as these illustrations help to show, is not a mere additional specification to the one preceding, affecting only the cases to which the other applies: in that case it would have been incorporated with it, not made to follow it, as an independent precept; but it concerns all changes occurring in the interior of divisible words, whether in the former or the latter member, and a part of the commentator's examples, rehearsed under rule 75, belong to it, and not to the latter.

म्रन्येनापि पर्वणा ॥ ७७॥

77. In which case restoration is made, even when the word is farther compounded with another member.

That is to say: a compound which, being divisible by avagraha, is entitled to restoration of the normal form of its constituent parts, retains its right even when, by farther composition, the division of its original members is lost. Examples are given in the commentary as follows: visita-srupah (vi. 60. 1: s. vishitasrupah), abhi-nihpatan*: apipatat (vii. 64. 1: s. abhinishpatan), visthitah-iva (vii. 115. 4: s. vishthitah-iva), brhaspati-pranuttanam (viii. 8. 19: s. °pranuttanam), prshadajya-pranuttanam (xi. 10. 19: s. as before), and durnihita-eshinim (xi. 9. 15:

^{*} Our manuscript writes abhi-nishpalan, as do also the manuscripts of the Atharvan pada-text in the passage cited; but I suppose here, as in the other similar cases referred to in the note to rule 75, that the sh is an attempt at representing the labial spirant: we have the guttural spirant, the jihrāmūtiya, in like manner represented by sh in abhi-nishkrta (x. 1.12) and abhi-nishkārin (x. 1.31).

s. durnihitàishinim). Other instances afforded by the text are viskandhi-dùshana (ii. 4. 1), atisthâ-vant (iii. 22. 6), su pranîti (e. g. v. 11. 5), durnâma-câtana (viii. 6. 3), anu-visicyate (viii. 10. 33), abhimoda mud (xi. 7. 26), jâgrat-duhsvapnyam and svapne-duhsvapnyam (xvi. 6. 9), prthivisat-bhyah (xviii. 4. 78), etc. Three exceptions to the rule are made below, in rule 96, and the text affords one more, as is there pointed out in the note. The commentator again adds a verse, but it is more than usually mutilated and obscure; it reads: prakrtyâ manatvam yad avagrhyet tathâi 'va tat: upatishthantî prapanâdiny udâharet.

क्रमे परेण विगृह्यात् ॥ ७६ ॥

78. In krama, restoration is made of a word which is taken together with another word than the disjoinable cause of its altered form.

The commentator's paraphrase is krame parena prasamulhane vigrhyan nimittât; which shows us—what the necessities of the case would of themselves have pointed out—that the important word to be supplied with vigrhyat is, by inference from rule 75, nimittat, the cause of the altered or abnormal form.' Vigrhya denotes a word which is altogether independent, and therefore disjoined from others in the pada-text, a nanapada, in distinction from avaythya, which means 'divisible into its constituents (pûrvopada and uttarapada), as a compound.' In the construction of the krama-text, then, where each word is in succession taken along with its predecessor and its successor, a word which in sanhità has an abnormal form, under the influence of the former or of the latter, retains that form when in the same kramapada with the altering word, but is restored to its natural form when making a kramapada along with any other word. The commentator cites a couple of passages-apo hi shiha mayobhuvah (i. 5. 1) and pari no vrndhi (vi. 37. 2) -but does not write them out in krama form, so as to illustrate the rule: they would read apo hi: hi shtha: stha mayobhuvah, and pari nah: no vrndhi. As counter-examples, to show that restoration of the normal form is made in a kramapada only when the cause of euphonic alteration stands in a separate word, and so is left out of the kramapada, we have given us two passages in their krama-form: prthivyâm te: te nishecanam: nishecanam bahih: nisecanam iti ni-secanam (i. 3.1 etc.). and âyane te: âyana ity â-ayane: te parâyane: parâyane dûrvâ: parâyana iti parâ-ayane (vi. 106. 1). Here the sh of nishecanam and the n of parâyane are maintained wherever the words containing them enter into a kramapada, and only suffer restoration (by rule 75, above) to s and n in the repetition or parihara.

The corresponding rules in the other treatises are Rik Pr. x. 5 (r. 5), xi. 21 (r. 44), and Upalekha iii. 3, 4. I do not find in the Vâj. Pr. any special direction upon the subject.

दीर्घस्य विरामे ॥७१॥

79. A lengthened vowel is restored to its natural form before a pause.

The illustrative passages are given by the commentator in pada form: as, $\hat{a}pah:hi:stha:mayah-bhvvah$ (i. 5. 1: s. shtha), and parva: asya: grabhîtâ (i. 12. 2: s. asya). The rule, however, evidently applies not less to the krama than to the pada text, and is even intended chiefly for the former: it is our authority for shortening a protracted final when it comes to stand at the end of a kramapada, while it is left long when taken together with its successor: we read hi shtha: sthâ mayobhuvah, and parvâ 'sya: asyâ grabhîtâ.

चतूरात्रो ज्वयक् एव ॥ ७० ॥

80. In catûrâtra, this is done only before the pause of separation.

From rule 74, which prescribes restoration of the normal form of a lengthened vowel in both parts of a repetition, one might draw the conclusion that the word here in question should be written, when repeated, caturâtra iti catuh-râtrah: hence this rule, which teaches the reading catûrâtra iti catuh-râtrah. Our commentator cites, in krama form, the passage containing the word, catûrâtrah pañcarâtrah: catûrâtra iti catuh-râtrah (xi. 7. 11).

पदात्तविकृतानाम् ॥ ६१॥

81. Restoration is made of alterations taking place at the end of a word.

The commentator's paraphrase is padântavikrtânâm ca shatvâdînâm samapattir bhavati, which would seem to show that he understands the rule as referring to the same series of abnormal alterations which was detailed in rule 74. His illustrations, however, put quite another face upon the matter: they are pari-eti: rakshan (iv. 38. 5) and abhi-aimi: devâh (vi. 118. 3). Here the only changes of form which have undergone restoration are the regular conversions of i into y (by iii. 39) before the following dissimilar vowel. We are thus guided to a different interpretation of the rule: whereas we have heretofore dealt with irregular or abnormal changes only, learning under what circumstances, in pada and in krama, they become reversed, and the original form restored. here we are taught that all alterations made at the end of a word, by the ordinary as well as the extraordinary combinations of the phrase. undergo restoration when the word comes to stand, in pada or in krama, before a pause (virâme, rule 79). It should be remarked that the final repetition of this rule is wanting in the manuscript, and that we cannot therefore be certain that we may not have lost with it other examples and farther exposition, which would have set the meaning of the rule, or the commentator's apprehension of it, in a clearer light.

ऋभ्यासविनतानां च ॥ ८५॥

82. Also of forms lingualized by the influence of a reduplication.

The Prâtiçâkhya now goes on to inform us where restoration must be made of alterations which have taken place in the interior of a word, and not under the influence of any cause lying outside of the word itself. The rules in this portion of the work are in great part the reverse of others formerly given, when the subject under treatment was the conversion of pada into sanhità. Thus, the present precept is the correlative of ii. 91, and it is illustrated by precisely the same series of examples; which, however, are here given in the pada form: thus, susûdata (i. 26. 4), abhi: sisyade (v. 5. 9), à: susvayantî (v. 12. 6), sisâsavaḥ: sisâsatha (vi. 21. 3), sisâsati (xiii. 2. 14), and susuve (xiv. 1. 43).

स्त्रैषूयं नार्षदेन द्वष्टरं त्रिष्टुभं त्रैकायणाज्जास्यत्यम् ॥६३॥

83. Also of stráishûyam, nárshadena, dushtaram, traishtubham, tráihâyanát, and jáspatyam.

By rule 76, above, no compound was declared entitled to restoration of the natural form of its constituents, unless it was by the pada-text treated as divisible. The words here detailed constitute exceptions under that rule, and have their irregular alterations reversed, even though (partly by rule 55, and partly by 54, above) they are not avagrhya. Our pada, in fact, reads strâisûyam (vi. 11.3). nârsadena (iv. 19.2), dusturum (vi. 4.1), trâistubham (ix. 10.1: we have also other forms from the same theme in the same and the following verse), and trâihâyanât (x. 5.22 and xii. 4.16); and jâhpatyam (vii. 73.10) is prescribed by iv. 64, although, as there remarked, our pada-manuscript actually gives jâh-patyam.

अभ्यासस्य परोत्तावाम् ॥ ८८॥

84. Also of a reduplication, in a form of the perfect.

The term paroksha, 'beyond the sphere of sight, out of one's sight,' is also employed by Pâṇini (iii. 2.115 etc.), along with bhûta, 'past,' and anadyatana, 'not on the present day,' to define the proper sphere of the perfect tense. We may suppose it here used alone as a name of the tense as being its distinctive characteristic, since the imperfect and aorist are also entitled regularly to one or both of the other designations. The commentator cites, as instances, totrpuh (xi. 7.13: s. tâtrpuh) and vavrtuh (v. 19.13: s. vâvrtuh); and, as counter-instances, to show that the vowel is not shortened in any other tense than a perfect, he gives lâlapîti (vi. 111.1) and rârajîti (vi. 71.2). The usage of the Atharvan texts as concerns the reduplication was fully explained under iii. 13, the only rule in which the subject is treated in the earlier part of the work.

A couple of verses follow in the commentary; they read as follows: abhyásasya ca dîrghatvam dîrghokiteti drçyate: na tasye 'shta samâpattir lâlapîti nidarçanam: yady abhyâsasya dîrghatvam nujâdînâm ca yanlıkoh: savarne ca parokshâyâm na samâpadyete kvacit. I have not succeeded in amending the text so as to be able to translate the whole passage.

वावृधानप्रभृतीनां च ॥ ६५ ॥

85. Also of våvrdhåna etc.

The commentator's instances under this rule are varydhanah-iva (not found in AV.), sasahih (iii. 18.5: s. sasahih), and varydhanah (e. g. i. 8.4). The gana might be filled up from the material collected and presented in the notes to the first section of the third chapter, but I have not taken the trouble to put it together, as it is uncertain how much and what the authors of the treatise meant the precept to cover.

कृषिरुपिरिषीणामनस्वानाम् ॥ ६६ ॥

86. Also of the roots krp, rup, and rish, when they are anahva.

I can find nowhere any cluc to the derivation and use of anohva, and the range of the cases to which the rule applies is too narrow for the induction with any confidence of a definition from them. For the root krp, either the commentator furnished no instances, or the manuscript has omitted them: the only derivative from that root, so far as I can discover, which the rule can have any concern with, is caklpat (vi. 35. 3: p. caklpat); since caklpuh and caklpe would properly fall under rule 84. For the root rup is cited na: rurupah (iv. 7. 5. 6: s. rûrupah); for the root rish, the two passages enasah: deva: ririshah (vi. 51. 3: s. rîrishah) and ma: nah: ririshah (v. 3.8: s. rîrishah). The commentator then asks anahvanam iti kim artham, 'why does the rule say "when they are anahva;"' and cites, as counter-examples, na: amimadah: na: arûrupah (iv. 6. 3), mâ: ririshah: noh (xi. 2. 29: this is, however, no counter-example, but precisely analogous with the two already cited for the same word), and sinivali: aciklpat (vi. 11. 3). So far as these instances go, anahva might be understood as designating an agrist form which has lost its acceut; or, virtually, an aorist subjunctive.

The text affords one other word, sugueah (xviii. 2.4: s. sasueah), of the same class with those treated in this rule. Its omission must be understood as signifying, either that the verse containing it was not in the Atharvan text of the authors and commentator of our Praticakhya, or that their text read, with the Rig-Veda (x. 16.1), socah, or, finally, that the word escaped their notice.

जीक्रीउाक्तम् ॥ ६७॥

87. Also of jîhîḍâ 'ham.

The commentator cites the passage in its pada-form, akratuh: jihida: aham (iv. 32.5). Compare rule iii. 14, of which this is the reverse.

साद्याम ॥ ८८॥

88. Also of sâhyâma.

The commentator cites the passage in its pada-form, sahyama: dâsam (iv. 32.1). Compare the previous rule, iii. 15. He adds a verse or two:

sahyamejñiya saheh dirghatvam yad dreyate: na tasye'shta samapattir yah çabdo dirgha eva sah: akhyate'utahpade hrasvo na samapadyate punah. The various irregularities of form appearing in, or in connection with, the root sah have been the subject of several previous rules: see ii. 82, iii. 1, iv. 70.

दीदायत् ॥ दश् ॥

89. Also of dîdâyat.

In the former rule (iii. 22), didayat was made the leading word of a gana composed of forms exhibiting an irregular prolongation in the second syllable, and we are justly surprised at not finding the statement here made in a corresponding manner. The commentator, in fact, cites precisely the same cases as before, in their pada-form—viz. didayat (iii. 8.3), ushasah: vîra-vatîh (iii. 16.7), and ushasanakta (e. g. v. 12.6)—just as if the rule read here also didayadînam.

नार्कादीनाम् ॥ १०॥

90. Also of nâraka etc.

Here we have the precise counterpart of rule iii. 21, above, and the commentator cites from the text the same three cases, viz. narakam (xii. 4.36), sadanam (e. g. ii. 12.7), and asataḥ: indra (viii. 4.8).

च्यावयतेः कारितालस्य ॥११॥

91. Also of the root cyu, in a form containing the causative affix.

Under this rule the commentator is unusually liberal of his citations: they are \(\alpha: \cdot cyavayantu: \sakhy\daya\) (iii. 3. 2), yath\(\alpha: \cdot v\data \text{that}: \cdot cyavayati\) (x. 1. 13), ang\(\data t-ang\data t: \cdot pra: \cdot cyavaya\) (x. 4. 25), cyavayan: ca: vrksh\(\data\) (xii. 1. 51), devat\(\data t: \cdot cyavayantu\) (xii. 3. 35), and p\(\data sh\data t: \cdot t\data : \cdot tah: cyavayatu\) (xviii. 2. 54). These are all the cases which the text furnishes of causative forms from the root cyu: in every instance, the sanhit\(\data\) prolongs the vowel of the first syllable, reading cy\(\data vayantu\) etc.

यावयतेराख्याते ॥ १५॥

92. As also of the root yu, if the form be a verbal one.

The commentator cites three of the numerous examples of causative forms from this root, having the long vowel of their first syllable shortened in pada: they are variyah: yavaya: vadham (e.g. i. 20. 3: s. yâvaya), asmat: yavayatam (i. 20. 2: s. yâvayatam), and varuna: yavaya (i. 20. 3: p. yâvaya). He does not explain the meaning of the restriction âkhyâte added to the rule, nor cite any counter-example. I can discover no other reason for it than the occurrence of the word yavayâvânah, at ix. 2. 13: this may have been deeined by the authors of the treatise to contain the causative ending (kâritânta) aya, and

therefore to require the rule to be so framed as to exclude it. But the word is divided by the pada-text yava-yâvânah, as if composed of yava and yâvan, from yâ: and this seems the best account to be given of it.

वनियमिश्रथिग्लापि ॥ १३॥

93. Also of the roots van, yam, crath, and glap.

The cases referred to in the rule are cited by the commentator, as follows: amûm: sam: vanayantu (vi. 9.3: s. vânayantu), vi: madhyam: yamaya (vi. 137.3: s. yâmaya), madhyamam: crathaya (vii. 83.3: s. crathâya), and na: îm: ava: glapayanta (ix. 9. 10: s. ylâpayanta).

The manuscript contains no final repetition of this rule, but offers, after the last citation, the words ingyavac ca. What to make of these words I do not precisely know: they may be part of a cited verse, of which the rest, along with the repetition of the rule, is lost; or they may possibly belong to an omitted rule: but I can hardly suppose the latter to be the case, not seeing what the meaning of the phrase should be, as a rule or a part of one.

The form of our rule 93, it may be remarked, is somewhat unusual: we should expect at the end of it the genitive plural ending: thus, "glapînâm.

नाष्ट्रनः ॥ १४ ॥

94. Ashta is not restored to its natural form.

The commentator gives the same citations as under the corresponding rule above (iii. 2): they are, in pada-form, ashtā-padi: catuḥ-akshi (v. 19.7), ashtā-pakshām (ix. 3. 21). ashtā-parṇaḥ, ashtā-danshtrum (these two are not found in AV.), ashtā-yogāiḥ (vi. 91. 1), ashtā-cakrā: nava-dvārā (x. 2. 31), and ashtā-cakram: vartate (xi. 4. 22). He also interposes, between the first and third examples, ashtā-yoniḥ; but this is a blunder, for the word is read with a short vowel in both pada and sanhitā (viii. 9. 21), in our Atharvan manuscripts, nor is yoni mentioned (iii. 2) by the Prātiçākhya among words before which the final vowel of the numeral is made long.

किनोतेः ॥ १५॥

95. Nor the root hi.

That is to say—wherever forms of this root, having the conjugational suffix nu or its modifications, show in sanhita after pra a lingual nasal, this nasal remains lingual also in the pada text. The commentator's examples are prati-prahinmah (x. 1. 5), pra:hinomi:duram (e. g. xii. 2. 4), and $pra:hinuta:pit\hat{q}u$ (xviii 4. 40).

Rule 88 of the preceding chapter is to be compared. The pada usage as regards these forms is quite anomalous: I can only conjecture that it may have been adopted in order to mark the euphonic alteration as itself of anomalous and exceptional character: there being, so far as I

have been able to find, no other cases in which a preposition lingualizes the nasal of a conjugational sign.

्बोधप्रतीबोधी केसरप्राबन्धाया ऋभ्यघायित पनिष्य-दातिष्ठिपं दाधार जागार मीमायेति ॥१६॥

96...... nor is restoration made in the words here mentioned.

The first three of the words detailed in this rule are exceptions under rule 77, above, or cases in which the normal form is not restored to a divisible compound, on its being farther compounded with another member: the pada writes them bodha-pratibodhau (v. 30. 10: compare prati-bodha, e.g. viii. 1. 13), kesara-prâbandhâyâh (v. 18. 11: pra-bandha is not found in the Atharvan text), and abhi-aghayanti (v. 6. 9, vii. 70. 3: compare agha-yantam, x. 4. 10). The last three are exceptions under rule 84, above, being forms of the perfect tense with short vowel nnrestored in the pada-text, which writes them like the sanhita, viz. dâdhâra (e. g. iv. 2. 7), jâgâra (e. g. v. 19. 10), and mîmâya (v. 11. 3). The text affords us once mimaya (ix. 10.21), so that the rule is deficient in explicitness as regards this form, and should have cited along with it a preceding or a following word. The other two, panishpada (v. 30. 16) and atishthipam (vii. 95.2), might be regarded as falling under the first general rule (iv. 74) for restitution of original form; or they might as naturally, one would think, be looked upon as special cases, falling under no previous rule, and therefore not needing specification here.

Of the class of the first three cases is sam-nishadya (iv. 16.2), which equally calls for inclusion in this rule, unless the reading in our pada manuscript is a copyist's error, and should be amended to sam-nisadya.

प्रपणः पणतेरेव ॥ १७॥

97. Nor in prapana, provided only it comes from the root pan.

The commentator cites the only two passages in which this word is to be found in the Atharvan, namely yena: ahanena: pra-panam: carâmi (iii. 15. 5), and cunam: nah: astu: pra-panah (iii. 15. 4). I cannot in the least understand why any such rule as this should be deemed called for. There is no rule, and no principle, which should require the restoration of the n of prapana to a dental form, nor is there any word in the text which exhibits an element pana whose nasal is lingualized by a previous constituent of a compound. So far as we can see, it is merely the fear lest some one should be stupid enough to mistake the n for an effect of the preposition pra, and so should commit the blunder of speaking, in pada, pra-pana, that calls out the precept. Its repetition before the one next following is wanting in the manuscript: possibly, then (as in the case of rule 81, above), we have lost something in the way of exposition or illustration which would have farther calightened us. In his paraphrase, the commentator says prapana iti parutâiraka samapattir na bhavati; but what paratairaka is, I do not know.

इदमूष्टादिषु पद्चात् ॥ १०॥

98. Nor in idam û shu etc., on account of their forming together (in krama) a single word.

The commentator paraphrases padatvât by tripadatvât, the latter being apparently a technical designation for those kramapadas which, by rule 113, below, are composed of three words, instead of, as usual, two The rule evidently applies to the krama-text alone; the pada reading of the passages referred to does not deviate in any manner from the usual norm: we have idam: un iti: su, etc. But what the point of the rule is, as concerns the krama-text, I find it rather difficult to The passages cited in illustration by the commentator are nearly the same with those already twice given, under ii. 97 and iii. 4: they are idam û shu (i. 24. 4), tad û shu (v. 1. 5), pary û shu (v. 6. 4), mahîm û shu (vii. 6. 2), anya û shu (xviii. 1. 16), and stusha û shu (xviii. 1. 37). According as the abnormal alteration aimed at by the rule is understood to be the prolongation of the u or the lingualization of the sibilant of su, we should add to the series the farther passages vii. 85. 1 and xviii. 3. 7, or vii. 72. 2, 73. 7, and 85. 1. I presume that we must adopt the former of the two interpretations: the \hat{u} , in these passages, is nowhere to be restored to its short form in the krama, since it cannot fulfill the condition required by rule 79, and appear before a pause.

ब्रह्मएवत्यादीनाम् ॥ ११ ॥

99. Nor in brahmanvatî etc.

The commentator cites brahman-vatim (vi. 108. 2), pagyat: akshan-van (ix. 9. 15), cîrshan-vatî (x. 1. 2), and vrshanyantî-iva: kanyalâ (v. 5. 3). The irregularity which renders necessary the rule is the retention of the lingual n as final, against the principle of rule iii. 89, above. The last case cited, however, does not belong with the rest, since the denominative ending, by rule 29, above, is separable only after a vowel, and we read vrshanyantyâh (vi. 9. 1) and vrshanyatah (vi. 70. 1-3), without avagraha: hence there is no ground for restoration.

दीर्घायुवादीनां च ॥१००॥

100. Nor in dîrghâyutva etc.

The same passages which were cited under the corresponding rule in another part of the treatise (ii. 59), and no others, are here again given by the commentator: they are, according to the reading of the padatext, dirgháyu-tváya (e.g. i. 22. 2), sahasracaksho iti sahasra-caksho: tvam (iv. 20. 5), and barhi-sadaḥ (xviii. 1. 45, 51).

The signature of the section is as follows: 102: caturthasya trityah pâdah; so that, unless rule 53 is to be divided into two, or unless the copyist's count is inaccurate, we have lost, somewhere in the course of the second and third sections, one of the rules of the text.

The concluding section of the treatise is occupied, first, with the recommendation of the study of the krama form of the text, and second, with the description of its mode of construction. The way in which it is stated and explained by the commentator is altogether different from that hitherto followed. First we bave presented us the whole of the text of the section, separated by marks of punctuation into the rules which compose it. Then follows the independent statement and explanation of each rnle in succession; but not, as heretofore, according to the set method of restatement in paraphrase, brief and dry illustration by examples, and final repetition: we have, instead of this, a free exposition, drawn out at considerable length and with some unction, much more in the style of the known comments upon the other treatises of the class. This not only authorizes, hut compels us to conclude that the remaining part of the commentary is by another hand than that which furnished the preceding. And the difference in style of the text itself no less justifies us in believing that the section was not an original part of our treatise, but is a later appendage to it. Whether or not it takes the place of another similar body of rules in the original Prâticâkhya, and was substituted for them as being a fuller and more satisfactory exhibition of the subject, it would not become us to attempt to say too confidently: the near agreement of the preceding chapters in respect to extent (each containing not much more than a hundred rules) would favor the supposition that it had been tacked on as new matter to the treatise, carrying with it a new division of the preceding rules of the chapter into three instead of four sections: the subject of krama may have been formerly disposed of in a few brief rules forming part of the last section: but our Prâticakhya has in too many of its previous rules made allusion to or implication of the krama-text (somctimes even naming it and contemplating it alone), to allow our assuming with plausibility that the construction of that text was not from the beginning one of the subjects with which the treatise dealt.

The krama is not treated by the Tâitt. Pr.; it is disposed of by the Vâj. Pr. in the closing rules of the final section of its fourth chapter (iv. 179-194), not occupying a whole section. In the Rik Pr. it takes up two chapters, the tenth and eleventh, each of which is by itself a complete krama treatise; the former giving (in fourteen verses) a concise exhibition of the subject, the latter (in thirty-seven verses) setting it forth with much greater fullness of detail. It is also the exclusive theme of the Upalekha, of unknown date and authorship, to which reference has already been made (see note to rule 74, above). The corresponding rules of all these authorities will be cited or referred to

in connection with those of our own text.

वेदाध्यवनं धर्मः ॥१०१॥

101. Study of the Veda is duty.

In the comment we read three times, instead of the full form of the rule, vedà dharmah (or dhurmam) simply; but doubtless by a copyist's omission. The commentator adds to the rule the more detailed state-

ment karmaçeshabhûtât: vedâ[dhyayanam] dharmam âhur yâjñikâh—because sacrifices are performed by means of the Veda, and sacrifice is obligatory. He makes reference to a couple of verses or sayings which inculcate the necessity or advantage of sacrifice, thus: svaryakâmo aghâyatâm ity unena mantron; çatâudanâstakhyam [çatâudanâkhyam?] karma kṛtvá svaryam sādhuyed iti yâjñikâmnânam. He theu anticipates and explains rule 104, below, concluding na vinâ redâir yajñas tâyate, 'sacrifice is not performed without the Vedas;' and he winds up his exposition with vedâdhyayanam dharma ity âdisâtram, 'this is the first rule.'

प्रेत्य ज्योतिष्टुं कामयमानस्य ॥१०५॥

102. On the part of one desiring a condition of light after death.

Pretya, literally 'having gone forward, having departed, deceased,' is by the commentator, with many words, explained to mean 'having quitted this world and gone on to another.' Upon jyotishtvam he discourses as follows: jyotirbhavo jyotishtvam: uktam hi: ye vû iha yajnair ârdhnuvans teshâm etâni jyotînshi yâny amûni nakshatrânî 'ti: jyotir diptibhavam ity arthântaram. The next rule he introduces by the question, "is it merely the reading that is duty! the answer is, no: how is it then?"

याज्ञिकैर्ययासमाम्रातम् ॥ १०३ ॥

103. In the manner as handed down by those who understand the sacrifice.

A yôjāika is defined as 'one who studies or understands the sacrifice' (yojāam adhîte yojāam vidar vâ). Not merely the study of the Veda, but its study according to the traditional methods of those versed in sacred things, is declared meritorious. Âmnâna is defined by paṭhana, 'reading,' and the commentator continues: "and how do the yôjāikas read? 'with the verse svaryakâmo ayhāyatâm [already referred to, under the first rule of this section] one must secure paradise: but it is objected 'that is an act of sacrifice, not a study of the Veda: hence merit is acquired by saerifice, not by the study of the Veda:' this, however, is not so"—as the rule which is next to be given is intended to show.

यज्ञतिर्न पृथम्बेदेभ्यः ॥ १०४॥

104. There is no performance of the sacrifice without the Vedas.

Hence, as the Vedas are an indispensable aid to the performance of that in which duty consists, the declaration that their study is a duty is one to which no objection can be made (iti niravadyam vedadhyayanam dharma iti).

यज्ञे पुनर्लीकाः प्रतिष्ठिताः ॥१०५॥

105. In the sacrifice, again, the worlds are established.

I add the whole argument by which the commentator proves this pious proposition: dyåur riyad avanis trayo loka yajāe pratishthitāh: katham: nirrāpādisanskrtam havir angushtaparvamātrena cokayā 'vattam antar nidhanasvāhākarana agnāu hutam jyotirdhāmabhāvena parinatam jyotirdhāvena dyāulokam dhāmabhāvenā 'ntariksham punar vrshtibhāvena parinatam prthivīm yāti: evam yajāe lokāh pratishthitāh. The properly prepared sacrifice, duly offered in the fire, becomes light and sınoke: the light goes to the sky, the smoke to the atmosphere, and, becoming rain, returns again to the earth: thus it reaches all the three worlds—and, if one chooses to look upon it in that light, establishes and supports them all.

पञ्चतना लोकेषु ॥१०६॥

106. As are the five races in the worlds.

The five races, the commentator says, are men: they are established in the worlds, the worlds in the sacrifice, the sacrifice in the Veda, and the Vedas are dharmaceshabhútâh: dharmâdâivatamatidâneat karmani ceshatâm ca gachanti: which last sentence is corrupt and obscure. From this, he goes on to point out the necessity of the study of the pada-text, and, as a help to it, of the Prâtiçâkhya, anticipating the rule which is next to follow: "the connection and distinction of the appellation (abhidhâna) and the subject of appellation (abhidhâna) is not, without the study of the pada-text; the recognition of the terminations is not assured, without the study of the pada-text: hence, in order to an understanding of the mantra, its pada-text (padâni) must be studied; and, by one who studies the pada. the Prâtiçâkhya must necessarily be studied, in order to the resolution of doubts (avacyam samcoyachedâya prâticâkhyam adhyeyam): and the uses of the study of the pada are farther set forth in the following rule."

पदाध्ययनमत्तादिशब्दस्वरार्यज्ञानार्यम् ॥ १०७॥

107. The study of the pada-text is for the sake of gaining knowledge of the endings, the beginnings, and the proper forms of words, and of their accent and meaning.

The commentator explains and illustrates this rule at considerable length, and by means of examples which are for the most part taken from our present Atharvan text. First, as he says, we are told that a rinsing of the mouth with water (udukācamanam) is prescribed to be accompanied by the pādas of the verse cam no devi (cam no devyāh pādāh: the verse is found at i. 6. 1); and here, without study of the pada, one fails to know that the first pāda ends with e (abhishṭaye: in sanhitā,

^{1 1-}MS. sambadhau antanam ca.

it is abhishtaya). The next following example is intended to illustrate the difficulty, without the pada-text, of finding upon occasion the right beginning of a word: it reads rtubhyas tva yaja ity artavebhyas tva yoja ity atrà "kârâdi na tu jñâyate. The reference here is to iii. 10. 10, rtubhyas två "rtavebhyah yaje; eight separate recipients of offering are enumerated in the verse, and it seems intended that, in liturgical use, två yaje, which the verse gives once for all, should be appended to each separately; this is intimated, though obscurely, by a prefixed direction: ashtukayam: rtubhyas tve 'ti 1 vigraham ashtau. Again, "without study of the pada, the Vedie forms of words (vâidikâh cabdah) are not known: as for instance, acvavatim straisuyam,2 etc.; in sanhitâ they have different forms, viz. açvâvatîm (xviii. 2. 31), strâishûyam² (vi. 11. 3): therefore the pada-text must be studied (adhyeyani padâni)." The next point made is the necessity of pada study to the understanding and right application of the rules respecting accentuation: "the brahmayajña etc. (? brahmayajñânâdi) are directed to be made with the employment of the three accents (traisvaryena): here one who does not study the pada is unpractised (apravinah) as regards the words: here, in the passages brohmâudanam pacati (xi. 1. 1) etc., one is to speak not with the accents, but with monotone, at the pitch of acute (! tatra brahmâudanam pacatî 'tyevamâdishû 'dâttaçrutyâ ekaçrutyå tå na svarena adhiyita): now beware lest there appear here the fault of a mantra deprived of lits proper accent. In the Atharvan rites. excepting the yago, in the tyings on of an amulet, etc., in the performance of the sacrifice (? yajñavehe), the employment of the mantros is taught to be made with the use of the three accents." Finally, the assertion that study of the pada is necessary in order to the comprehension of the meaning of the text is supported with much fullness of illustration: as instances are cited vi hara (v. 20.9: this, however, may be no citation, but part of the exposition), alasala 'si (vi. 16. 4: we could wish that the pada actually taught us more about this obscure verse), yavan ne 'd adân (vi. 50. 1), ûn iti (passim), sam v âsnâ 'ha âsyam (vi. 56. 3). tad v asya retah (ix. 4. 4); and farther, with special reference to the element of accent, yé asmô kam tanvàm (ii. 31. 5), and svádv admi' 'ti (v. 18.7): and the conclusion is "here, and in other instances, one who does not study the pada would spoil the sankita; hence, for these reasons, the pada must be studied." I add the whole text, which in places is corrupt and obscure, and of which the value is too small to make an elaborate attempt at restoration necessary or advisable: mantrarthac ca padådhyayanåd vinå na jñåyate: våkyam hi padaço vibhaktam anuvyanakti: tac ca padâdhyâyî sandhim ca pade chedam tu çaknuyâd vibhaktam: vi hora: ulasâla 'si: yavân ne 'd adan: ûn iti: sam v asna 'ha âsyam: tad v asya retah: ityevamâdishu sunhitayam ca bhavati:ryajatî 'ty atra sanhitikah sa pra kuryât: tathâ udattasvaritodayena vighâtam ojânan: ye asmâkam tanvam: anyatrâ 'pi nihanyeta: svâdv admî 'ti: atra ca svaritam kuryât: tathû udûttântasya pûrvapadasyâ 'nudûttâdav uttarapade tut tasya 'ntasthapattau svaritam akshamnarthe janasyarthe 'ty anyatrâ 'pi tat kuryat: evam âdy anyatrâ 'py apadadhyayî sanhitâm vinaçayet: tasmâd ebhih kâranair avaçyùdhyeyani: kim ca:

¹ MS. rtumabhyastyeti.

³ MS., both times, trâisûyam.

क्रमाध्ययनं संहितापददार्धार्यम् ॥ १००॥

108. The study of the krama has for its object the fixation of both sankitâ and pada.

The true reading of this rule is a matter of some doubt. Prefixed to the commentator's exposition, the manuscript gives simply sanhitâ-dârdhyârtham, and the commencement of the comment implies or requires no more than that: it might seem, then, that we had here only an addition to the last rule, "the study of pado is in order to the fixation of sanhitâ." But this would be a lame conclusion to the argument of this part of the section, which must be intended finally to bring out the importance of the krama-text. And as the exposition closes with pretty clearly assuming as the full form of the rule under treatment that which is presented above, and as the prefixed text of the whole section so far favors the latter as to read sanhitâpadadârdhyârtham, I think there can be little question that it is to be received as here given.

The pada, the commentator tells us, must be studied for the sake of the establishment of the sanhia. He defines dardhya by drdhasya bhavah, and cites the rule of Panini which teaches its formation (varnadrdhadibhyah shyan ca, Pan. v. 1. 123). He goes on: "when here, in the sanhita, a doubt arises, the student of the pada will give a solution of the doubt. Then what need of a study of the krama? On this point, it says: 'the study o' the krama has for its object the fixation of both sanhita and pada.'" What follows is corrupt, and only in part intelligible: sanhita ca svasams'ha cu bhavati: yaramany ekrapadadsipudac cu pragrhyavayrhyasamtehapanodanam. Finally, he introduces the next rule by saying idam ca 'param karanam kramadhyayanasya, 'and here follows another reason for the study of krama.'

स्वरोपजनश्चादष्टः पदेषु संक्तितायां च ॥१०१॥

109. And the origination of accent is not seen in pada or in sanhtá.

That is to say—as we are doubtless to understand it—in the pada we have before us only the accent of the uncompounded elements; in the sanhità, only that of the combined phrase: how the one grows out of the other is shown by the krama, which gives everything in both its separate and combined state. The commentator defines upajana by utpatti, and declares it unperceived in pada (pudakâle), while it actually takes place in krama (kramakâle). As an illustration, he takes svâdv' admi' 'ti (v. 18.7): here, in pada, we have an oxytone and an unaccented syllable, which form a circumflex, while in the sanhitâ the circumflex farther suffers depression (nighâta, the vikampita of onr rule iii. 65, above), and the circumflex itself only appears in krama (in svâdv àdmi, where the cause of depression of the sravita is not present): hence, he concludes, the krama ought to be studied. He adds: "now comes the description: of what sort, it is asked, is this krama:" the following rules of the section will answer.

¹ MS. varnadrdhaditvát : dhyañ :

दे पदे क्रमपदम् ॥११०॥

110. Two words form a krama-word.

The commentator is very brief upon this rule: he says "the study of krama being now assured (prasiddha), two combined words form a single krama-word; their combination will be taught hereafter [in rule 122], where it says 'according to the rules' (yathāçāstram)."

The corresponding rules of the other treatises are Vâj. Pr. iv. 180, Rik Pr. x. 1 (r. 2) and xi. 1 (r. 1), and Up. i. 14. With the exception of the latter, they are more comprehensive than ours, including something of what here is made the subject of following rules. The precept of the Vâj. Pr. covers our rules 110-113.

तस्वात्तेन परस्य प्रसंधानम् ॥१११॥

111. With the final of this is made farther combination of the following word.

The term antena is explained by avasanena, 'close, end:' we might have rather expected the reading antyena, 'with the last word of each krama-word as already defined. To parasya is supplied padasya, in the comment, as in the translation. The commentator takes the trouble to tell us that to the end of this following word is then to be farther appended its successor, and so on, so that one constructs the krama by thus successively combining the words of the text by twos. Were this rule not given, he says, the former one might be erroneously understood as prescribing that we should form our krama-words by taking first the first and second words of a verse, then the third and fourth, then the fifth and sixth, and so on; while this shows us that we are to take the first and second, then the second and third, then the third and fourth, and so on. We may take, as an illustration, the last line of the first hymn of the Atharvan (i. 1. 4 c, d), in constructing the krama-text of which only this simple and fundamental rule would come into action: it would read sam crutena: crutena gamemahi: gamemahi må: må crutena : çrutena vi : vi râdhishi : râdhishî 'ti râdhishi (by iv. 117).

The Vâj. Pr. and Rik Pr. combine this rule with the preceding: the Upalekha (i. 15) states it separately, and in a distincter manner than our

treatise: tayor uttareņo 'ttaram padam samdadhyat.

नात्तगतं परेण ॥११५॥

112. A last word is not combined with its successor.

By antagatam, literally 'a word gone to, or standing at, the end,' is meant, in verse, the closing word of a half-stanza, or one preceding a pause: in a prose passage, it doubtless indicates a word preceding one of the pauses of interpunction by which a numbered passage, or verse, is divided into parts. A panse, which interrupts the ordinary combinations of sandhi, interrupts those of krama also: there is no need that the krama-text should exhibit the euphonic connection of words which

in sanhità do not euphonically influence one another. The rule, as the commentator tells us, is intended to restrict the too great extension (atiprasaktam) of the one which precedes it. That the final word, thus left uncombined, suffers parihara, or repetition, is taught in rule 117.

The corresponding rules in the other treatises are Vaj. Pr. iv. 180, Rik Pr. x. 8 (r. 9), 11 (r. 18), and xi. 21 (r. 44), and Up. i. 16.

त्रीणि पदान्यपृक्तमध्यानि ॥११३॥

113. Three words form a krama-word, if the middle one of them is a pure vowel.

The term apṛkta we have met with before (i. 72, 79), as used to designate a word composed of a single vowel or diphthong, unconnected with any consonant: the commentator, after exposition of its meaning, paraphrases it by avyanjanamicracuddhakevalasvarah, 'a pure and entire vowel, unmixed with consonants.' He cites, as an instance, dhiyà: à:ihi (ii. 5. 4): here the krama reading is not dhiyà": e'hi, but dhiye"'hi: to which, by rule 115, would follow again e'hi, and then, by the present and other rules, ihy à nah: à nah: na iti nah. The only apṛkta words which the text contains are the preposition à, the particle u (p. ûn iti: see i. 72, 73), and their combination o (p. o iti: see i. 79). It is doubtless to point out and call attention to this mode of treatment of the à in the krama-text, that our Atharvan pada manuscripts quite frequently write a figure 3 after the word which follows it: thus, in the instance cited, the manuscript gives dhiyà: à:ihi: 3, at i. 1. 2, punah: à:ihi: 3, ctc.*

All the krama-systems have this feature: compare Vâj. Pr. iv. 180, 181 (which calls such a krama-word, composed of three members, a tri-krama). Rik Pr. x. 2 (r. 3), xi. 2 (r. 3), and Up. i. 17. The two latter authorities, however, except the compound o, and would have it treated like any ordinary word. The Vâj. Pr. is obliged to note (iv. 183), as farther instances of trikramas, mo shu nuh and abhi shu nuh, where, if the krama were performed in the usual way, the sanhitâ reading of lingual n in nah would not be capable of exhibition; and like reasons compel it (iv. 184) to establish, in a few cases, krama-words of four constituents, as ûrdhva û shu nah. The Rik systems, also, are not a little complicated by the necessity of attending to such special cases occurring in their text, and which once cause a krama-word to contain even five members. The fact that such complicated cases of sandhi do not happen to be met with in the Atharva-Veda saves our treatise the like trouble.

रकादेशस्वरसंधिदीर्घविनामाः प्रयोजनम् ॥ ११८॥

114. The grounds of this are the fusion of vowels into a single sound, the combination of vowels, prolongation, and lingualization.

^{*} The addition of the figure is usual, but not invariable, in the first books of the text; later, it is only made here and there. The figure is never inserted after u.

The longer of the two krama-treatises incorporated into the text of the Rik Praticakhya is the only other authority which gives any reason why aprkta words should not be independently reckoned in constructing the krama-text. It says (R. Pr. xi. 2, r. 3) that the omission takes place "for fear of nasalization;" that is, lest the particle should, if suffered to stand at the end of a krama-word, receive a nasal pronunciation. The entire disagreement of the two explanations offered is noteworthy, and may be taken as an indication that neither is authoritative, and as a permission to us to find a better one, if we are able. It seems to me more likely that the weakness of the yowel-words \hat{a} and u, unsupported by consonants, and their liability to disappear in or become obscured by the final of the word which precedes them, as if they were mere modifications of its termination, was the cause of their exceptional treat-A similar suggestion has already been made (see under i. 73) as to the way in which the pada-text deals with u. The commentator's exposition of the rule is elaborate, but deficient in point. To illustrate the item ekádeça, 'vowel-fusion, substitution of one vowel-sound for two or more others, he takes dhiyo: à: ihi (ii. 5. 4): here, he says, by the operation of the rule samunaksharasya (iii. 42), dhiya and a become dhiya: the a of the latter, combined with the i of ihi, becomes e, and the result is the one word dhiyehi: ergo, this is the way the combination must be made, otherwise there would be no krama-word (tasmád ity anena samdhanena bhavitavyam: anyatha kramapadam eva na syat). The conclusion appears to me an evident non-sequitur, a mere restatement of the original proposition. For the second item, he selects the example $ihi: \hat{a}: nah$ (ii. 5.4): here, if we compound $ihy \ \hat{a}$ and \hat{a} nah, a vowel-combination (svarasandhih) is made of the i, by the rule svare namino 'ntahstha (iii. 39). How this vowel-combination furnishes a ground for the krama-word ihy a nah, he does not attempt to point out. For the third and fourth items, the chosen instance is idam: un iti: su (i. 24. 4). This, too, is to be regarded as (in krama) forming a single word. The following text is corrupt, and I subjoin it, instead of attempting a restoration and translation: tasyá ca na samdhih: tathá hi: idamüshvõdishv asahhitikam dirghatvam: carca 'sya tripadasya madhyabhávád ishyate: idamáshv ity evambhutasyái 'va rúpákhyátáyám avasyam tripadam vançakramena na bhavatitavyam: atrài 'và 'padatvam: tad api tripadamadhyävayavam. The prolongation of the u in this and similar cases would indeed seem to furnish a reason for the construction of the krama-word out of three members, since the long vowel could not properly appear if the particle were made the final of one such word and the beginning of another: but I am unable to see how the lingualization of the sibilant should have any effect in the same direction, since there would be no difficulty in reading u shu as a krama-word, if the u were treated in the ordinary manner.

ञ्चाकारीकारादि पुनः ॥११५॥

115. \hat{A} and o are made to begin a word again.

That is to say, after á and o have been included, as middle members, in a triple krama-word, they are again taken as initials of the word next

following. The commentator's examples are $gop\hat{a}yat\hat{a}$ "småkam: \hat{a} 'småkam (xii. 3. 55 etc.), dhiye" 'hi:e'hi (ii. 5. 4), and havir o shu: o shu: o ity o (vii. 72. 2).

The same usage, as concerns &, is taught also by the other treatises: compare Vâj. Pr. iv. 182, Rik Pr. x. 8 (r. 11) and xi. 18 (r. 34), Up. iv. 13.

उकारः परिकार्य एव ॥११६॥

116. *U* is merely to be repeated.

The mode of repetition of the particle is taught in the next rule but one. This rule is, as the commentator explains it, intended to forbid the combination of u (like \hat{a} and o) with the next following word to form a new krama-word (anyayoganivrttyarthah). As an example, he gives us sa u sûryah: $\hat{u}\tilde{n}$ ity $\hat{u}\tilde{n}$ iti (xiii. 4. 5).

प्रगृत्यावगृत्यसमापायात्तगतानां दिर्वचनं परिकार इतिमध्ये ॥११७॥

117. Repetition with iti interposed, or parihâra, is to be made of pragrhyas, of words admitting separation by avagraha, of those requiring restoration to the natural form, and of those standing before a pause.

The commentator simply expounds this rule, without bringing up any instances to illustrate it. The kinds of words specified are to be repeated, or spoken twice, in the krama-text (kramakale), the name of the double utterance being parihara: and this parihara is to be made with interposition of iti: having performed one of the two utterances,

one is to say iti, and then repeat the word.

The mode of repetition is, as has already been noticed (under iv. 74), called in the Rik Pr. by the related name parigraha (e.g. R. Pr. iii. The Vâj. Pr. (iv. 187) styles it sthitopasthita, which title is also known to and defined by the Rik Pr. (x. 9 and xi. 15). The Up. (iv. 12) knows only parigraha. The forms to be repeated are, according to the doctrine of the Vâj. Pr. (iv. 187-193), a divisible word (avagrhya), one in the interior of which appears a prolongation or a lingualization, a pragrhya, a riphita of which the r docs not appear in sanhita, and a word preceding a pause (avasana). The first and the last three of these classes are, indeed, treated in the same manner by all the other authorities (compare R. Pr. x. 6-8, r. 7-9, and xi. 13-14, r. 25; Up. iv. 4-11); but, as regards the words which in sanhita undergo an abnormal alteration of form, there is a less perfect agreement among them. The Rik Pr. and Up. specify as requiring repetition in krama (besides sundry special and anomalous cases), words having their initial vowel prolonged, and those in the interior of which there is a change not brought about by external influences—that is to say, due to euphonic causes within the word itself. Whether the Vaj. Pr. includes among the repeatable words those having a prolonged initial, or whether any cases of this kind occur in the text to which it belongs, I do not know. Our own krama-system, it will be noticed, while in one respect more chary of the repetition than the others, in that it repeats no riphita words, in another respect is vastly more liberal of its use, applying it in the case of every word which requires restoration from an abnormal to a normal form, according to the rules given in the preceding section of this chapter. There is no limitation made, either by the text or by the commentary, of the term sumapadya; so far as I can see, every word in the text which undergoes in sanhita any of the changes detailed in rule 74, above, must suffer parihara. The Atharvan krama is thus made a more complete and elaborate index of the euphonic irregularities occurring in its text than is that of either of the other Vedas.

By way of introduction to the following rule, our commentator says, at the close of his exposition, that the words mentioned in this precept have their repetition made with a single iti: we are next to be told that

in the repetition of the particle u two are required.

द्वाभ्यामुकारः ॥ ११८ ॥

118. The particle u requires two iti's.

That is to say, when u is repeated, each occurrence of the word is followed by iti, and we have $u\tilde{n}$ ity $u\tilde{n}$ iti. None of the other treatises supports this reading: all would prescribe simply $u\tilde{n}$ ity $u\tilde{n}$.

अनुनासिकदीर्घवं प्रयोजनम् ॥ १११॥

119. The reason of this is its nasalization and protraction.

The commentator explains as follows: "the nasalization of this particle u when followed by iti is taught by the rule ukarasye'tav apṛktasya [i. 72]; if, then, it should not be distinguished by (âdriyeta) a second iti, it would be deprived of its nasal quality—as also of its protraction [since this also, by i. 73, is prescribed only before iti]. Therefore, considering its prescribed nasality and protraction, u must always be repeated with a double iti."

प्रतश्चाप्रुतवत् ॥ १५०॥

120. A protracted vowel is, in repetition, to be treated as if unprotracted.

The commentator's exposition is: plutaç câ 'plutavac ca parihartavyah: aplutena tulyatâm prâvahitavyah: parihârakâle: purushah: â : babhûvâm3: atra â ity akârah plutah: sa aplutavatâ parihartavyah: â babhûvâm3 iti babhûve'ti vaktavyam; 'a protracted vowel is to be repeated as if it were unprotracted; i. e., it is to be reduced, in parihâra, to equivalence with an unprotracted vowel: thus, in the passage purushah: â: babhûvâm3 (x. 2. 28), the â is a protracted a: it must be repeated along with [or, in the form of] an unprotracted a; we must read â babhûvâm3 iti babhûve 'ti.' The reading of the manuscript is unfortunately corrupt at the end, where the required krama-form is to be given: the scope and intent of the rule will be examined under the one next

following, which also concerns only the passage here cited by the commentator.

ग्रनुनासिकः पूर्वश्च शुद्धः ॥ १५१ ॥

121. And a nasal vowel, in its first occurrence, is to be made pure.

I again add the whole comment: yah pûrvam anunâsiko drshtah sa pariharakale guddham krtva parihartavyah: etad evo 'daharanam: atrai 'va puru*ka â babhûvâñ's ity arasâne:iti:avasâne â iti pûrvam anunâsiko drshtah guddhah parihartavyah: babhûve 'ti babhûvan'; 'the vowel first seen as nasal is, in parihara, to be repeated pure [i. e. free from nasality]: the instance is the one already given: here, the vowel first appearing as nasal before the panse—by the rule purusha à bahhûvan ity avasâne (i. 70)—is to be repeated pure: thus, bubhûve 'ti babhûvân.' most obvious and natural understanding of this would be that the nasalization is only to be retained in the first utterance of the word, and that in parihara, by this and the preceding rules, both protraction and nasality should be lost altogether; so that the krama would read a babhûvân3: babhûve 'ti babhûva. But the rules in the first chapter to which the commentator refers expressly require the nasality to be retained before a pause, and forbid the protraction only before iti, so that they would appear to teach babhûve 'ti babhûvan's; which, as we see, is the actual reading of the commentator under this rule, while, under the preceding, the reading is too corrupt for us to understand what he intends to give us. The best manner, as it appears to me, of reconciling these apparent discrepancies is to take pûrvah in the present rule as belonging with the predicate instead of the subject, and as indicating the former of the two occurrences of the repeated word in parihara, thus making the translation such as it is given above; and farther, assuming the same thing to be implied also in rule 120, the repetition, or parihara, there referred to, being, in a restricted sense, the occurrence of the word before iti: the Upalekha employs parigraha, in part, in the same sense.* It may be, however, that we ought to confess a discordance between the teachings of our treatise here and in the first chapter, and to understand the krama reading here prescribed to be babhûve 'ti babhûva—or, if pûrvah be interpreted in the manner proposed, babhûve 'ti babhûvan. A like case occurring in the Rig-Veda (x. 146, 1) is, according to the Upalekha (vii. 9, 10: the Rik Pr. seems to take no notice of it), to be treated in the manner laid down in our first chapter: vindatîna, for vindati, is in krama to be read vindatî 'ti vindatîna. What is the doctrine of the Vaj. Pr. in a similar instance has been mentioned in the note to i. 97.

यथाशास्त्रं प्रसंधानम् ॥ १५५॥

122. The successive combination of words into krama-words is to be made according to the general rules of combination.

^{*} See Pertsch's preliminary note to chapter v.

The commentator expounds this rule in a clear and pertinent manner. He says: "it has been said in a former rule [iv. 111], 'with the final of this is made farther combination of the following word:' there, however, the method of combination is not taught (samdhānavidhānam no 'ktam): wherefore the present rule is here added. The term yathā-çāstram means 'according to the several rules (yad yac chāstram):' whatever mode of combination of separate words is taught in the pada-çāstra (yad yat padaçāstre padānām samdhānalakshanam uktam), thas force also here in the formation of each single krama-word. This is expressly stated, in order to guard against the danger of understanding a krama-word to be composed of disconnected vocables (! krama-padatvād anyacabdaçankayo 'cyate): this must not be the case."

The Vâj. Pr. has no precept corresponding to this, evidently regarding it as clearly enough implied in the general direction that two words "are to be combined" (sam dadhāti: iv. 180) to form a krama-word. It is, however, distinctly laid down by the other treatises (R. Pr. x. 5,

r. 6, and xi. 21, r. 44; Up. iii. 3-5).

प्रगृद्यावगृद्यचर्चायां क्रमवडुत्तरिस्मन्नवग्रहः ॥ १५३ ॥

123. The pada-repetition of a divisible pragrhya is to be made in the manner of that of krama, with separation by avagraha in the latter recurrence of the word.

The commentator begins with explaining prayrhyavagrhya to be a determinative and not a copulative compound (yasminn avagrhyatvam [prayrhyatvam ca] ekasminn eva yugapad bhavati), and goes on as follows: "such a word, in its pada-repetition (carcâyâm), is to be treated as in krama: carcâ means twofold utterance (dvirvacanam): that takes place in the pada-text (padakâle) just as in the krama-text (kramakâle); that is, one repeats (pariharet) the form of the krama-text. In krama, both prayrhyas and divisibles suffer repetition; in pada (padeshu), on the other hand, only a divisible prayrhya is repeated. In such a repetition, how is separation by avagraha made? The rule says, 'with separation by avagraha in the latter recurrence of the word:' that is, the latter or second recurrence of the word is to receive avagraha, and not the first: for example, virûpe iti vi-rûpe (x. 7. 6, 42)."

The usage of both our Atharvan pada-text and that of the other Vedas in regard to carcá, or repetition, has been fully set forth in the note to iv. 74, above, as also the doubt which may reasonably be entertained whether the usage here taught, and followed in the extant manuscripts,

is that which the rules of the preceding section contemplate.

The prescription in this rule, and in this alone, of the employment of avagraha in separating the constituents of a compound word when it appears for the second time in the repetition, after iti, seems necessarily to imply that, in the repetitions of krama, separation by avagraha is not to be made at all, either before or after iti, but that we are to read, for instance (i. 1. 1), ye trishaptah: trishaptah pariyanti: trisapta iti trisaptah: pariyanti viçva: pariyanti 'ti pariyanti, etc. To regard the specification utlarasmina avagrahah of our rule as in such manner re-

trospective as to reflect its prescriptive force, through kramavat, back into the rule for krama-repetition, or parigraha—understanding the meaning to be, 'in pada-repetitions, the second recurrence of the repeated word is to suffer division by avagraha: as is to be the case also in krama-repetitions'—would be, I should think, much too violent. Nevertheless, the Rik Pr. (x. 10, r. 16, and xi. 16, r. 31) and Upalekha (iv. 3) distinctly teach that the avagraha is to be used in the repetition of compound words, after iti. I cannot find that the Vâj. Pr. prescribes the separation either in pada or in krama, although it is regularly made by the commentator on that treatise in the examples which he cites, and Weber passes it over without remark.

समापायानामले संहितावद्वचनम् ॥ १२४ ॥

124. Words requiring restoration, if occurring before a pause, are to be spoken in their sanhitâ form.

The three last rules of the section and of the treatise concern the treatment of such words as, while they stand at the end of a half-verse, or in any other situation before a pause, also exhibit in sanhità some abnormal peculiarity of orthoepy which, by the rules of the preceding section, requires restoration to the natural form. A word of this class, instead of being combined with its predecessor into a krama-word, and then repeated, is, before its repetition, to be spoken once more in sanhità form. The commentator takes the example sà vrkshàn abhi sishyade (v. 5.9: p. sisyade, by iv. 82), and, without writing it out in full in the krama form, says that we must utter sishyade again, and then repeat it, sisyada iti sisyade. He adds: "so also may be brought forward as instances (udàharyah) pranitaye (vi. 23. 2: p. pra-nitaye) and all other like words, having the cause of alteration within their own limits." This last restriction, as we shall see, he insists upon more distinctly under the next following rule.

This special point is left untouched in all the other krama-treatises.

तस्य पुनरास्थापितं नाम ॥ १२५॥

125. Of this, furthermore, the name is âsthâpita.

Weber (p. 283) regards punch here as a part of the title, which he understands to be puncarasthapita. This would not be in itself unlikely, but it is not favored by the commentator, who, both here and under the following rule, treats asthapita alone as the term designating the word to which the rule relates. He omits punch altogether, in his paraphrase of the present rule, as being superfluous: tasya sankitavad vacanasya: asthapitam ity evam samina bhavati. He then goes on to state more at large the restriction hinted at under the last rule: namely, that a word which is samapadya, or liable to restoration, as being altered at its commencement by the influence of the preceding word, is not to be treated in the manner prescribed by these rules: "that is to say, where cause and effect (nimittanaimittike) are in one word; for instance, sishyade: here the conversion into sha produced by the reduplication

holds over, owing to the fact that the reduplication and the altered sibilant are in the same word. But this is not the case in the passage striyâm anu shicyate (vi. 11.2), [or, in pada form] tat: striyâm: anu: sicyate: here no repetition in the sanhitâ form takes place [or, the repetition does not take place in the sanhitâ form: iti na sanhitâvad bhavati]; and why? because cause and effect are declared to stand in two separate words: anu is a preposition; it produces conversion into sh by the rule upasargât etc. (ii. 90), and that conversion is heard (rrutah) in a scparate word; here, then, let the process not be performed (! tenâtramidibhût): for this reason is this explanation made." It might still seem doubtful, after all this lengthy exposition, whether such a word as sicyate was regarded by the commentator as not to be scparately spoken at all, or as to be separately spoken, only not in sanhitâ form, as follows: striyâm anu: anu shicyate: sicyate: sicyate iti sicyate; but the latter interpretation seems to me the more probable.

स ट्रकपदः परिकार्यश्च ॥१२६॥

126. That is a krama-word of a single member, and is also to be repeated.

The commentary upon this rule is not so clear as the rule itself seems to be, without comment or explanation: it reads as follows, with only the most obvious emendations: parihartavyaç ca sa âsthitasamjānpadrçah [âsthāpitasamjāāikapadah?]: yo 'sāu sanhitādvirvacanena nirdiquate: nimittanāimittikayor bhinnapadasthatvāt: sa parihāryaç ca bhavati. If the intent of this is to limit the application of the rule to those words whose cause of alteration is situated in a preceding independent word, it can hardly be accepted. What follows is still more corrupt and less intelligible: sanhitāvad vidāci bahulam iti yaç chandast 'ti: varnālopāgamahrasvadīrghapluta ātmaneshā parasmāi vibhāshā api yanti.

Finally, to close up the commentary, two verses are given us, but so much mutilated that hardly more than their general sense (and even that only in part) is recognizable: natakibudhyà nacasastra drshiyà yathàmnanam anyathà nài va kuryàt: âmnatam parishannasya sastram drshto vidhir vyatyayah pûrvasastre: âmnatavyam anamnatam prapathe 'smin rkvácatpadam: chandaso 'parimeyatvat parishannasya lakshanam: navishannasya lakshanam iti.

The signature of the chapter and of the work has been already given in the introductory note, but may be repeated here: iti çâunakiye caturâdhyâyike caturthah pâdah: caturâdhyâyîbhâshyam samâptam: çrîrastu: lekhakapâthakayah çubham bhavatu: çrîcandikâyâi namah: çrîrâmah: samvat 1714 varshe jyâishthaçuddha 9 dine samâptulikhitam pustakam. I may also be permitted to add the propitistory heading of the manuscript. which was, by an oversight, omitted to be given in its proper place: it reads om namah sarasvalyâi namah: om namo brahmavedâya: athângirasah. The last word is, as I cannot doubt, a copyist's error for atharvângirasah.

ADDITIONAL NOTES.

1. Analysis of the Work, and Comparison with the other Prâtiçâkhyas.

So far as concerns the agreement or disagreement of the other Prâticâkhyas with that of the Atharva-Veda in respect to the doctrines taught in the latter, the comparison has already been made in detail in the notes to the text. I have thought, however, that it would be advisable to append here a systematic view of the contents of our treatise, and a brief statement of the correspondences of the rest, in order to exhibit more clearly the sphere of the former, and to show how far those of the latter coincide with it, and how far they cover more or less ground than it occupies.

I. INTRODUCTORY AND EXPLANATORY.

Introductory, object of the treatise, i. 1, 2; definition of terms, i. 3, 42, 43, 48, 49, 92, iv. 73, 125; interpretation and application of rules, i. 95, iii. 38.

- II. Phonetics and Euphony: production, classification, properties, and combination of sounds.
- 1. Simple sounds: formation and classification of consonants, i. 10-13, 18-31; do. of vowels, i. 27, 32-41, 71; quantity of vowels and consonants, i. 59-62; accents, i. 14-17.
- 2. Sounds in combination, and resulting modifications: possible finals, i.4-9, ii. 3; final vowels not liable to euphonic change (pragrhya), i. 73-81, iii. 33; syllable, i. 93; division of syllables, i. 55-58; quantity of syllables, i. 51-54:—kinds of independent circumfiex accent, iii. 55-61, 65; kinds of enclitic do., iii. 62-64; evocation and modification of accents in words and sentences, iii. 67-74:—conjunction of consonants, i. 49, 50, 94, 98, ii. 20; abhinidhana, i. 43-47; yama, 199, 104; nasikya, i. 100, 104; svarabhakti, i. 101, 102, 104; sphotana, i. 103, 104, ii. 38; karshana, ii. 39; euphonic duplication of consonants (varnakrama), iii. 26-32.

III. Construction of combined text, or saneitâ.

Prolongation of initial, final, and medial vowels, iii. 1-25:—combination of final and initial vowels and diphthongs, iii. 39-54, ii. 21-24, i. 97; resulting accent, iii, 55, 56, 58, 65, 66; resulting nasality, i. 69; final vowels not liable to combination, iii. 38-36:—combinations of final and initial consonants: final non-nasal mutes, ii. 2-8, 13, 14, 38, 39; final nasals, ii. 9-12, 25, 26, 28, 30-37, iii. 37, i. 67; final semivowels, ii. 19, 21-24, iii. 20; final visarjaniya, ii. 21, 24, 40, 43-52, 54-59, 62-80; initial consonants, ii. 7, 15-18:—final nasal before a vowel, ii. 27, 29, i. 68, iii. 27; final visarjaniya before a vowel, ii. 41, 42, 44-53, 56:—lingualization of t and th, ii. 15, 16; do, of t, ii. 15, 16; do of t, ii. 15, 16; do of t, ii. 15, 16; insertion of t, iii. 15, 16;

IV. CONSTRUCTION OF KRAMA-TEXT.

Importance of krama-text, iv. 108, 109; its construction, iv. 110-122, 124-126, 74-100, i. 70, 97.

V. CONSTRUCTION OF DISJOINED, OR PADA-TEXT.

Importance of pada-text, iv. 107; combination or separation of verb and preposition, iv. 1-7; do. of suffixes, iv. 13-37, 46-48, 53, 65, 66; do. of compounds, iv. 8-12, 21, 22, 27, 28, 38-45, 49-64, 67-72; restoration of the original form of words, iv. 74-77, 79, 81-97, 99, 100; repetition in pada, iv. 123; special cases, i. 72, 73, 81, 82; enclitic accent in pada, iii. 68, 69, 72, 73.

VI. SUNDRIES, SPECIAL CASES, ETC.

Study of Veda recommended, iv. 101-109:—special irregularities of formation, i. 63-66, ii. 25, 60, 61, iii. 7, 43; special case of accent, i. 96; list of protracted vowels, i. 105; quantity of nasalized vowels in interior of word, i. 88-91.

In regard to the matters embraced in the first of the general divisions here laid down, it may be said that our treatise is much more curt and concise, and more ready to pass without notice what may be assumed as already known, than either of the others. Definitions of terms are far from numerous, and the whole department of paribhāshā, or explanation of modes of phraseology, of extent, bearing, and application of the rules, and the like, which in all the other Prâtiçākhyas occupies considerable space, is here almost wholly wanting. This is in part owing to the simpler and less artificial mode of arrangement adopted in our work.

In the division of Phonetics and Euphony, the discordances among the different authorities affect chiefly matters of detail, and are not of a character to call for notice here. The other three treatises include or imply a list and enumeration of the sounds of the spoken alphabet, which is wanting in our own. All, also, after treating the subject of the formation of articulate sounds in the outset in a manner nearly according with that here followed, return to it in their later and less genuine chapters, and discuss it anew with a straining after greater theoretic profundity. The niceties of consonantal combination, as abhiniahāna etc., make nearly the same figure in all the four: for minor differences, see the notes on the text. The Rik Pr., to its specification of possible finals (which is wanting only in the Taitt. Pr.), adds that also of possible initials, and of compatible or conjoinable consonants (xii. 1-4).

Under the head of the conversion of pada-text into sanhita, the authorities differ only on minor points, or by the treatment of special cases

appertaining to the text with which each has to deal.

Thus far, the subjects treated are those which no Praticakhya ean pass over in silence: those which remain are not essential to the completeness of a work of this class, and are accordingly found altogether wanting in one or more of the treatises. Thus, the IVth general division, the construction of the krama-text, is not touched upon in the Taitt. Pr., and the parts of our own and of the Rik Pr. which concern it are open to the suspicion of being later accretions to the text. The Vth division, the construction of the pada-text, receives still more scanty attention, being entirely passed over in the Taitt. Pr., and represented in the Rik Pr. only by a few scattering rules relating to special cases, analogous with those found in the earlier chapters of the Ath. Pr.; only the Vaj. Pr. joining the latter in treating it at large, although in a less complete and elaborate manner.

A more detailed comparison will be necessary under the last head, that of miscellaueous and extra-limital additions to the body of the work, of matters more or less akin with its proper substance, and auxiliary to its object, yet omissible without detriment to its completeness as a Prâtiçâkhya. As concerns the study of the Veda, the first subject mentioned in our analysis, the Rik Pr. offers a very interesting chapter (xv. 1-16) on the mode of instruction followed in the schools of Vedic study; the Vâj. Pr. recommends Vedic study (viii. 35-42), and tells (i. 20-26, viii. 32-34) who should pursue it, and under what circumstances. All the other treatises give explanations of single irregular and excep-

tional words and forms, of which the list will be more or less extended according as we include in it all those words which the pada-text does not analyze, or only such as are of especially anomalous character. The Rik Pr. alone among them (i. 6) catalognes the few protracted vowels occurring in its text. Like our treatise, it also teaches (in a late chapter, xiii. 7-10) when interior nasalized vowels are long: the Taitt. Pr. (xvi. 1-31) goes farther, and laboriously catalogues all the nasalized vowels contained in its text, short or long, which are not the result of euphonic combination. Of this same class of appendices, which are designed to call attention to points in the text where especial liability to error is held to exist, are the following: the Rik Pr. (ii. 5) gives a list of instances of hiatus within a word; the Vaj. Pr. attempts (in part, in a bungling manner, and with very sorry success) to point ont words which do not end with visarjaniya (iv. 26-32), which contain one y or two (iv. 149-159), or single, double, or triple groups of consonants (vi. 25-30); the Tâitt. Pr. adds to its list of nasalized vowels only (xiii. 8-14) that of words showing an original lingual n. The Vaj. Pr. (iii. 1, viii. 50, 51) defines a word, and both it (i. 27, viii. 52-57) and the Rik Pr. (xii. 5, 8, 9) distinguish and define the parts of speech, while all the three give a list of the propositions (R. Pr. xii. 6, 7; V. Pr. vi. 24; T. Pr. i. 15): and the Vâj. Pr., after its fashion, carries the matter into the domain of the absurd, by laying down (viii. 58-63) the divinities and the families of rshis to whom the several classes of words, and even (viii. 47) of letters, belong. The Rik Pr. (x. 12, xi. 12) and Vaj. Pr. (iii. 148, iv. 77, 165-178, 194) treat of the samaya or samkrama, the omission of verses or phrases which have already once occurred in the Such omissions are abundantly made in all the manuscripts of the Atharva-Veda, sanhitâ as well as pada, but the Prâtiçâkhya takes no notice of them. The Rik Pr. has a chapter (xiv. 1-30) on errors of pronunciation, from which, by careful comparative study, important information on phonetic points may be drawn. It also, in its three closing chapters (xvi-xviii), treats with much fullness the subject of metre, which no one of the others even hints at. The Taitt. Pr. devotes a single brief chapter (xviii. 1-7) to the quantity and accent of the auspicious exclamation om. The Vaj. Pr. has an interesting, although rather misplaced, series of rules (vi. 1-23) respecting the accentuation of verbs and vocatives in the sentence, and also makes a foolish and fragmentary attempt (ii. 1-45, 55-64) to define the accent of words in general. With its rules respecting the ritual employment of different tones and accents (i. 127-132) is to be compared what the Taitt. Pr. (xxii. 12, xxiii. 12-20) says of tone and pitch. The Vaj. Pr., finally, remarks briefly and imperfectly (iii. 17, 137, 138) on the omission in the Vedic dialect of certain terminations.

It is thus seen that the Atharva-Veda Pratiçakhya does not greatly differ in its range of subjects from the other treatises of its class; being somewhat less restricted than the Taitt. Pr., and somewhat less comprehensive than the remaining two, the Vaj. and Rik Pratiçakhyas. Its style of treatment is marked by sundry peculiarities, of which the most striking and important is the extensive use which it makes of ganas in the construction of its rules. It is this which has enabled it, while in-

cluding so much, to be at the same time so much the briefest of the four works. This approximates it, also, to the character of the general Sanskrit grammar, as finally and principally represented to us by Pânini. The close connection between the two is farther shown by many other circumstances which have been pointed out in the notes upon the text -by the contemplation in numerous rules, both general and special, of phenomena of the general language rather than those of the Atharvan vocabulary alone, by a more liberal introduction of grammatical categories than any other of the Prâticakhyas makes (the Tâitt. Pr. is its antithesis in this respect), and by the exhibition (not the use, as significant) of some of the indicatory letters employed by Panini himself. It is very sparing of its references to the opinions of other authorities, Çâunaka and Çâkatâyana being the only grammarians whom it cites by The latter of the two appears, both from the text and the commentary, to have stood in an especially near relation to the authors of our treatise. Câunaka, although his opinion is rejected in the only rule where his name appears, is yet mentioned in a way which may be regarded as implying his special importance as an authority; it being thought necessary to teach expressly that his dictum upon the point referred to is not binding. There is nothing, at any rate, in the mode of the reference, which should militate against the claim apparently implied in the name of the work, that it represents in the main the doctrines of a Caunaka, and belongs to a school which derives its name from him.

Whether the peculiarities pointed ont are of a nature to determine the chronological relation of our treatise to the other Praticakhyas is a difficult and doubtful question. The discussions of this point hitherto made appear to me nearly barren of any positive results. They are all more or less based upon the assumption that the appearance in a Prâtiçâkliya of a later phase of grammatical treatment or of grammatical phraseology is an unequivocal evidence of later composition. this is so is not readily to be conceded. Since Prâtiçâkhyas are no complete grammatical treatises, but only the phonetical text-books, and the manuals of rules for conversion of pada into sanhità, belonging to special schools, and since they imply a vastly more complete grammatical science than they actually present, it is not to be denied that any one of them might include more or less of the form and the material of that science, as its compilers chose, or as the traditional usage of their school required. Thus, for instance, there would be no implausibility in supposing that the Tâittirîya Prâtiçâkhya, though so much more limited in its grammatical horizon than those of the Vajasanevi and Atharvan, was actually composed at a later date than either of them, and deliberately adopted the method of treating its material according to the letter rather than the meaning, as being better suited to the character of a Prâtiçâkhya, which concerns itself only with phonetic form, and not with sense. If such a supposition admits of being proved false, it can only be so by a more searching and wary investigation and comparison than has yet been made, or than is possible before the full publication and elucidation of all the treatiscs. It is very doubtful whether any one of the Prâtiçâkhyas has escaped extensive modifi-

cation, by alteration, insertion, and addition, since its first substantial construction. The fact that in the Rik Pr. all that is essential to make out such a treatise is contained in the first half, or chapters i-ix, is strongly suggestive of the accretion of the later chapters, and the character of more than one of them lends powerful support to such a sug-That the Vaj. Pr. has suffered interpolation and increment is the opinion of its editor, and we cannot help surmising that its weakest and most impertinent portions, especially those in which the expression seems intended to conceal rather than convey the meaning they cover, are the work of a very late hand. None of the other treatises is disfigured by such features. In point of dignified style, and apparent mastery of the material with which it deals, the first rank belongs unquestionably to the Rik Prâtiçâkhya; with what inaccuracies and deficiencies it may have to be reproached, its editors have not ascertained for us: a careful testing of the rules by the text whose phenomena they were meant to present in full will have to be made for all the treatises before their comparison can be rendered complete. The results of such a testing as regards the Atharva-Vcda are to be found scattered everywhere through the notes upon the text, and do not need to be summed up here. I fulfil, however, a promise previously given (note to i. 1), by making summary reference below to the rules in which our treatise oversteps the limits of the subject which it is treating, or of the sphere of such a work as it professes to be, or in which it contemplates euphonic combinations and words not to be found in its text.

Treatment of matters purely concerning the pada-text, in the portions properly devoted to sanhita, is made in rules i. 72, 73, 81, 82, iii. 64, 68, 69, 72, 73: a like thing is done for the krama-text at i. 70, 97, iv. 74 etc., 98. Combinations not Atharvan are had in view at i. 47, ii. 9, 11, 12, 14, 15, 26, iii. 27, 46; words not Atharvan, at i. 77, 86, 87, ii. 25, 51, iii. 2, 92, iv. 28, 62, 69. The bounds set in the first rule of the work are transgressed, by the inclusion of matters of word-formation and derivation, and the explication of forms which have no other qualities in pada than in sanhita, at i. 63-66, ii. 18, 33, 34, 52, 59, 60, 61, 82, 87, 89, iii. 1, 2, 3, 7, 8-11, 43, 49, 57, 59, 60, 61, 75, 78, 87, 90. Among these last cases, a few are palpably and grossly out of place; but the greater part may be explained and excused by supposing that the pada-text implied by the Prâtiçâkhya is an ideal one, which our established and recorded pada-texts nearly approach, but do not altogether coincide with.

2. Relation of the Praticakhya to the existing Text of the Atharva-Veda.

In attempting to determine the relation of our treatise to the only known text of the Atharva-Vcda, by the help of the citations which the former contains, it is necessary, of course, to consider as one the text and its commentator, since the gana-method pursued by the treatise relieves it from quoting more than a small part of the words and passages to which it was intended to apply. And even with the help of the commentator, since he fills out the ganas but in part, we are able to find references to no more than a portion of the phenomena of the text to which the view of the makers of the Praticakhya was directed. This

state of things deprives our investigation of much of the definiteness and certainty which it ought to possess, and which would attend a similar examination of any other of the Prâtiçâkhyas by means of its Veda; yet it is desirable even here to make the comparison, which will be found not barren of valuable results. The index of passages in the Atharvan text cited by the Prâtiçâkhya and its commentary, to be given later, furnishes in full detail the principal body of the material of investigation; and from that we derive at once the important information that to the apprehension of the Praticakhva the Atharva-Veda comprehended only the first eighteen books of the present collection. The two single apparent references to passages in book xix, the one made by the commentator (under ii. 67), the other by an authority whom he cites (under iv. 49), are of no account as against this conclusion: the absence from the rules of the treatise of any notice of the numerous irregularities of the two closing books, and the want of other citations in the commentary than the two equivocal ones referred to, are perfectly convincing. This testimony of the Prâticâkhya, moreover, agrees entirely with that which we derive from a consideration of the character of those books and the condition of their text: no pada-text of book xix and of those portions of book xx which are not taken bodily from the Rig-Veda is known to be in existence, and it is not at all likely that there ever was one; the text could hardly, in that case, have become so corrupt. The citations run through all the other books of the Atharvan; they are more numerous, as was to be expected, in the earlier books, and in parts of the text they are but thinly scattered; vet no extended portion of the first eighteen books can with plausibility be supposed not to have lain before the commentator for excerption. As regards single passages, there is room for more question: although our lack of the complete ganas greatly interferes with a full discussion of this point, we are able to discover phenomena in the existing text of which the Praticakhya, even as at present constructed, plainly fails to take notice. Some such cases of omission the commentator himself has perceived, and calls attention to,* but those which have escaped his notice also are much more numerous. Many, probably the greater part, of these are to be set down to the account of the authors of the treatise, as results of their carelessness or want of accuracy: but that all of them can be thus disposed of does not appear to me likely; it seems a more probable supposition that in our authors' Atharvan single passages and single readings were wanting which are met with in the present text. The question, however, hardly admits of a positive solution: it would aid us not a little in coming to a conclusion upon it, did we know precisely what is the completeness and accuracy of the other treatises, as tested by their respective texts.

Differences of reading offered by the manuscripts as compared with the Praticakhya form another main branch of the evidence bearing upon the question under consideration. That which I have collected, how-

^{*} See under ii. 63, 65, 101, iii. 60, iv. 16, 18, 67.

⁺ All, so far as my own search for them has been successful, have been set down in the notes on the text, above: see under ii. 63, 72, 93, 96, 97, 101, 102, iii. 5, 12, 13, 25, 33, 45, 61, 80, iv. 13, 16, 39, 50, 57, 63, 68, 86, 96.

ever, is not of decisive character, and hardly furnishes so much ground for suspicion of a discordance between the present text and that of the authors and commentator of our treatise as was derived from the citations. That the manuscripts neglect the refinements of Vedic orthopy, such as the yama, nasikya, svarabhakti, and sphotana, and the duplications of the varnakrama, is a matter of course. Other theoretical niceties of a similar character, as the aspiration of a final mute before a sibilant (ii. 6), and insertions between a mute and sibilant (ii. 8, 9), we are equally prepared to see neglected in the written text, and we should not think of founding upon their absence the suspicion that the manuscripts represented the Veda of another school. Some peculiarities of cuphonic combination—the insertion of t between n and s (ii. 9), the assimilation of n to j (ii. 11), the omission of a mute between a nasal and another mute (ii. 20), the conversion of m to nasal l before l (ii. 35), the retention of visarjantya before a sibilant and following mutc (ii. 40)—have been noted as followed or disregarded by the copyists of our codices with inter irregularity and absence of rule. Their treatment of α or $\hat{\alpha}$ before r (iii. 46) is a more distinctive trait, and may possibly rest upon a difference of scholastic theory. Their writing of dhdh or dh for ddh (i. 94) is of no significance, being more or less common in all Vedic MSS. while opposed to all sound phonetic theory and doctrine. Nor do I regard as of importance the great discordance of the manuscript treatment of the visarjaniya with that which the Praticakhya teaches (ii. 40)-viz. the neglect of the guttural and labial spirants, and the retention of visarjaniya, instead of its assimilation, before a sibilant: all the written Vedic texts, so far as I know (with, at least, but rare and unimportant exceptions), follow in these respects the usage of the later language, and not the requirements of the Vedic phonetic grammars. single cases have been pointed out in the notes, where all or nearly all the manuscripts give readings of words differing from those which the rules of the treatise require: but most of these* are of a kindred class with those last noted, or concern the conversion or nonconversion of visarjaniya into a sibilant, and are therefore of doubtful value: upon such points our Atharvan manuscripts, closely connected as they are with one another in origin, not unfrequently disagree. These being set aside, only two or three indubitable cases of violation of the Praticakhya rules in the existing cakha of the Atharvan remain, and these admit of ready and plausible explanation as errors of copyists.

We come now to consider the remaining department of the evidence, or that afforded by the references and citations in the text and commentary which furnish words and phrases not to be found in the extant Atharvan text. Such references and citations are very numerous, occurring in or under nearly a fifth of the rules which the treatise contains. Much the greater part, however, of the considerable body of

^{*} See under ii. 62, 73-76, 80, 86, 93, 107, iv. 75, 77.

⁺ See under iii. 76, 79, iv. 64.

[†] See the notes to i. 4, 14-16, 20, 25, 28, 44, 47, 49, 52, 56, 58, 65, 68, 77, 78, 86, 87, 89-91, 98; ii. 2, 5, 6, 9, 12, 14, 16, 19, 20, 25, 26, 28, 31, 40, 41, 47, 50-52, 63, 64, 74, 82, 83, 86, 90, 102; iii. 1, 2, 5, 8, 11, 20, 27, 30, 32, 37, 39, 40, 42, 44-46, 48, 50, 51, 53, 54, 55, 58, 64, 75, 77, 78, 90, 92; iv. 18, 26, 28, 56, 61, 62, 67, 69, 85.

non-Atharvan material thus presented us is recognizable at first sight as of no force to show any discordance between the Atharva-Veda of the Prâtiçâkhya and that of the existing manuscripts. It is, as has been often pointed out in the notes, a peculiarity of the authors of our treatise to give their rules a wider scope than the vocabulary of the Atharvan requires, in many instances contemplating and providing for combinations of sounds which are found nowhere in the whole body of the Vedic scriptures, and for which, accordingly, the commentator is obliged to fahricate illustrations. Moreover, even where the Atharvan furnishes numerous or innumerable examples of the application of a rule, the commentator sometimes prefers to draw upon his own fancy, instead of citing its text (notable instances of this are to be found especially under iii. 42-50). This being the case, it is evidently impossible to draw any distinct and certain line of division between what may be cited from an Atharvan text not agreeing with the one which we possess, and what is derived from other sources. But there are a certain number of sentences. among those given by the commentator, which have more or less clearly the aspect of genuine citations from a Vedic text; and although some among them might be regarded as instances of carelessness on his part, he quoting by memory from another source than his own Veda, we cannot plausibly extend this explanation to them all: it must remain probable that in part, at least, they were contained in some hitherto unknown câkhâ of the Atharva-Veda. The sentences referred to are as follows: prâ 'mû ca roha (i. 14-16), punâ raktam vâsah (i. 28, ii. 19, iii. 20), rtûnr rtubhih (i. 68), amî açaçre (i. 78), tad abhûtam (ii. 2), dhâtar dehi savitar dehi punar dehi (ii. 47), samaho vartate (ii. 50), yad aho rûpâni dreyante (ii. 51), yadâ 'ho rathamtaram sâma gîyate (ii. 51), bhuvo viçveshu savaneshu yajniyah (ii. 52: found in Rig-Veda, x. 50. 4), âvish krnute rûpâni (ii. 63), dyâush pitar nyann adharân (ii. 74), vi srpo virapçin (ii. 102), tatarsha purodaçam (iii. 32), varshyodakena yajeta (iii. 32), sahasrarcam ide atra (iii. 54), svargena lokena (iii. 78), mahi tvam (iv. 26), jamadagnyátharvana (iv. 67), and vavrdhánah-íva (iv. In two instances these citations are directly referred to in a rule of the text (ii. 51): in all the other cases where the treatise itself mentions or implies words not found in the Atharvan,* it seems to me unnecessary to see anything but the tendency of the rule-makers to give their rules a wider bearing than the nature of the case required.

The identity or near correspondence of many of the fabricated illustrations furnished by the commentator with those given by the scholiasts to Panini has been remarked in many instances,† and is a very noteworthy circumstance, as adding a new proof to those already elsewhere given of the more intimate relation of the grammatical system of our treatise than of that of any other of the Praticakhyas with the general Sanskrit grammar; and also, as indicating the antiquity and the persistence in use of at least a part of the examples selected to illus-

trate the Paninean rules.

^{*} They are i. 77, 86, 87, ii. 25, iii. 2, 92, iv. 28, 62.

[†] See under i. 58, ii. 14, 25, 40, 52, 63, 83, 90, iii. 27, 30, 32, 39, 40, 44, 45, 48, 50, 51, 53, 77, 90, iv. 28; analogies might also be pointed out in Panini for the examples under i. 49, 98, ii. 6, 9, 26, iii. 42, and a more thorough and careful search than I have made would doubtless bring to light additional correspondences.

3. The Consonantal Combinations of the Atharva-Veda, and their Phonetic Form according to the Rules of the Prâtiçâkhya.

In the course of the notes upon certain portions of the text of the Prâtiçâkhya, I found it highly desirable, or almost necessary, to ascertain how many consonantal combinations of certain classes were to be found in the Atharva-Veda, and with what frequency they occurred. I was hence led to draw out a complete list of all the combinations of consonants which the text contains. Later, in examining and comparing with one another the nicer points in the phonetic theory of the treatise, particularly those which the written alphabet does not attempt to represent, I thought it worth while to make a practical application of all the phonetic rules to the collection of combinations already drawn up, writing each one out in the form which the rules would require it to assume. The result is the following scheme, which has seemed to me of sufficient interest to be worth appending to the present work.

To make out a complete list of the consonantal groups of our text is a work only of time and patience: to determine in every case what is the Pratiçakhya's doctrine as to its true phonetic form is less easy, since it involves the application of rules which sometimes appear to trench upon each other's spheres, and of which the reconciliation cannot always be satisfactorily effected. I have not, however, been willing to assent to the opinion which Weber (p. 247) expresses, that any of the modifications prescribed are absolutely inconsistent with, and exclude, one another. It is not easy to see how, in that case, the phonetical treatises should present them side by side without any apparent misgivings, and without notifying us that the application of certain ones exempts us from the necessity of making certain others. At any rate, I shall here follow as accurately as I can all the directions which our Prâticakhya gives, expressing now and then such doubts as may suggest themselves respecting the mutual limitations of the rules: if the resulting combinations sometimes look strange, intricate beyond measure, and unutterable. the fault will lie with our Hindu authorities.

One circumstance deserves to be specially noted here: namely, that the loss of a rule or rules from the midst of the passage of the Prâtiçâkhya treating of duplication (see under iii. 28) doubtless loads our list with a few more doubled consonants than it should properly bear. I do not venture, however, to fill out the *lacuna* by conjecture: a suggestion or two will be made farther on as to what the lost rules may in part have contained.

I. Groups not liable to phonetic modification. These are, α , of two consonants: cy, cky, jy, ts, pv, bv, bkv, mv, yy, ll, ll, zk, zkh, gc, gch, gy, gg, shi, shih, shn, shsh, si, sth, sn, ss, qp, qph; β , of three consonants: tsm, tsv, tsv, xkl, zkr, zksh, gcy, ggm, ggy, ggr, ggl, ggv, shiy, shir, shir, shiv, ship, shiv, sty, str, stv, sthy, ssk, sst, sst, ssp, ssm, ssp, ssm, ssy, ssr, ssv, qpr, qpl; γ , of four consonants: zkshv, shiry, sstr.

This class, it will be noticed, is composed of combinations containing two consonants of the same organ (sasthāna), where, by iii. 30, no duplication is made—the constitution of the group being, at the same time, not such as to necessitate abhinidhāna, or any of the euphonic insertions taught at i. 99-104. To the groups containing, in the

printed text, a final visarjaniya as their first member, I have given the form required by the Prâtiçâkhya at ii. 40, representing (after Müller's example) the jihvâmûlîya spirant by χ , and the upadhmânîya by φ , as I have also done in one or two isolated cases in the notes on the text.

II. Groups suffering abhinidhana only (by i. 44). These are as follows: \alpha, of two consonants: kk, gg, ggh, nk, nkh, ng, ngh, nh, cc, cch, jj, ñc, ñch, ñj, ddh, nth, nd, ndh, tt, tth, dd, ddh, nt, nth, nd, ndh, nn, pp, bb, mp, mph, mb, mbh, mm; β , of three consonants: $kksh, \dot{n}kr, \dot{n}kl, \dot{n}kv, \dot{n}ksh$, ňkhy, ňgy, ňgr, ňgl, ňghr, cchr, cchl, cchv, jjy, jjv, ñchy, ñchr, ñchl, ñchv, ñjy, ddhy, ndy, tty, ttr, ttv, ddy, ddr, ddv, ddhy, ddhr, ddhv, nty, ntr, ntv, nts, ndy, ndr, ndv, ndhy, ndhr, ndhv, nny, mpr, mpl, mps, mbr, mbhr, mml; γ , of four consonants: nkshn, nkshv, ntry, ntst, ntsth, ntsp, ntsv, ndry.

All these groups are of such a character that, by the rule already referred to (iii. 30), they are not subject to duplication of their initial consonant; which latter, however, by i. 44, must, as being followed by another mute, undergo the weakening process of abhinidhana. Representing, as I propose to do, this weaker utterance by a type smaller and

set a little lower, the pronunciation will be kk, kksh, ńkshn, etc.

III. Groups suffering duplication only: 1st, with duplication of first consonant; a, groups of two consonants: yv (as yyv), lk, lg, lp, lph, lb, lm, ly, lv, vn, vy, vr, cn, cp, cm, cr, cl, cv, shk, shp, shm, shy, shv, sk, sp, sph, sm, sy, sr, sv; β , of three consonants: lgv (as llgv), grv, gvy, ghkr, shpr, shmy, sphy, smy, svy;—2nd, with duplication of second consonant; α , groups of two consonants: hy (as hyy), hr, hl, hv; β , of three con-

sonants: hvy (as hvvy).

IV. Groups suffering duplication and abhinidhana. 1st, with abhinidhâna of one consonant; a, groups of two consonants: ky (as kky), kr, kl, kv, ksh, khy, gy, gr, gl, gv, ghr, ghv, $\dot{n}y$, $\dot{n}v$, $\dot{j}r$, $\dot{j}v$, $\dot{t}y$, $\dot{d}y$, $\dot{d}r$, $\dot{d}v$, $\dot{d}hy$, dhr, dhv, ny, nv, ty, tr, tv, thy, thv, dy, dr, dv, dhy, dhr, dhv, ny, nr, nv, py, pr, pl, ps, ps, br, bl, bhy, bhr, my, mr, ml, ls, lh; β , groups of three consonants: kshn (as kkshn), kshm, kshy, kshv. ghry, hvr, try, trv, dvy, dvr, dhry, nvy, nvr, psy; γ , of four consonants: kshmy (as kkshmy); -2nd, with abhinidhana of two consonants; α, groups of two consonants: kc (as kkc), kt, kth, kp, gj, gd, gdh, gb, gbh, hj, ht, hd, hdh, hn, hp, in, ih, tt, tp, db, dbh, nn, nm, tp, tph, dg, db, dbh, np, nb, nbh, nm, nh, pt, bj, bd, bdh, mn, mn; \beta, of three consonants: kty (as kkty), ktr, ktv, kthy, kpr, gdhy, gdhy, gbhy, hty, htv, hdhy, hpr, ttv, tpr, dbr, dbhy, nny, tpr, tpl, dbr, dbhy, dbhv, npr, nps, nbr, nbhr, nmy, pty, ptv, bdhv, mny.

V. Groups suffering one or both the above modifications, with interposition of yama. 1st, with yama and double abhinidhana; a, groups of two consonants: $j\bar{n}$ (as $j\bar{j}\bar{n}$), tn, thn, dn, dhn, pm; β , of three consonants: $c\bar{n}y$ (as $c\bar{c}\bar{n}y$), $j\bar{n}y$, $t\bar{n}y$, $d\bar{h}ny$, sthn (as $sth\bar{t}hn$);—2nd, with yama of second consonant, and triple abhinidhana: ighn (as ighghn), $jj\bar{n}$, $\bar{n}j\bar{n}$;— 3rd, with duplication of first consonant, yama, and triple abhinidhana: a. groups of two consonants: kn (as kkkn), kn, km, khn, gn, gm, ghn, jm, tm, tm, dm, dhm, pn. bhn, bhn; \beta, groups of three consonants: kny (as kkkny), any, any, dmy, pny;—4th, with duplication of first consonant.

yama of second, and quadruple abhinidhana: kthn (as kkththn).

The Vaj. Pr. (iv. 111) has a rule expressly prohibiting duplication of

the first consonant in a case like the last, where a consonant suffering yama follows it. Such a precept is very possibly one of those lost in the lacuna exhibited by our MS. after iii. 28; and I should hope that the Prâtiçâkhya might have extended the exemption from duplication also to any consonant of which yama is made, thus including our 3rd division, and allowing us to say simply kkn, etc. There were enough of duplication, one would think.

VI. Groups suffering one or more of the above modifications, with interposition of nasikya; viz. duplication of second consonant, nasikya, and abhinidhana; a, groups of two consonants: hn (as hⁿnn), hn, hm;

 β , groups of three consonants: hny (as h^n_{nny}), hny.

VII. Groups suffering the interposition of svarabhakti only: 1st, of the longer svarabhakti: $r_{\mathcal{C}}$ (as $r^{\circ}_{\mathcal{C}}$), $r_{\mathcal{C}}$), $r_{\mathcal{C}}$, of the shorter; α , of three consonants: rjy (as rjy), rts, rsht, rshn; β , of four consonants: rtsy (as r'tsy), rshny.

I have assumed that, in the last class of cases, the rule forbidding the duplication of a consonant before another of the same class prevailed over that prescribing the duplication after the r. In the absence, however, of any direction as to this point in either the text or its commentary. I am by no means confident that my understanding is the true one.

VIII. Groups suffering svarabhakti, together with one or more of the preceding modifications. 1st, with svarabhakti (shorter) and abhinidhana: rtt (as r'tt); -2nd, with svarabhakti and duplication; a, with longer svarabhakti: rh (as rohh); b, with shorter; a, groups of two consonants: ry (as r'yy), rl, rv; β , groups of three consonants: rvy (as r'vvy), rvr, rçv, rshm, rshy, rshv, rhy, rhr, rhv; -3rd, with svarabhakti (shorter), duplication, and abhinidhana; a, groups of two consonants: rk (as r'kk), rg, rgh, rc, rch, rj, rn, rt, rth, rd, rdh, rn, rp, rb, rbh, rm; β , groups of three consonants: rksh (as r'kksh), rgy, rgr, rny, rty, rtr, rtv, rdy, rdr, rdv, rdhy, rdhr, rdhv, rny, rpy, rbr, rbhy, rbhr, rmy; 7, groups of four consonants: rkshy (as r'kkshy), rtvy;—4th, with svarabhakti (shorter), yama, and double abhinidhana: rtn (as rtin), rdhn;— 5th, with svarabhakti, duplication, yama, and triple abhinidhana: rtm (as r'tttm).

Two or three of these combinations are liable to the doubt expressed after the last class. It may also excite a question whether r and h are to be duplicated when following one another: I have, however, in classifying such groups, interpreted the first part of rule iii. 31 as meaning 'r and h are not liable to duplication when either is the first consonant of a group: this would leave each free to be doubled when preceded

by the other.

IX. Groups liable to sphotana, together with some of the preceding modifications; viz. to duplication, double abhinidhana, and sphotana; a, groups of two consonants: t.k (as tt.k), t.k, t.kh, d.g, d.gh, p.k, p.ch, b.g, bj. n.k, n.kh, n.g, n.gh; β , groups of three consonants: t.kr (as tt^skr), t.kv, t.ksh, d.gr, n.kr, n.ksh, n.gr.

With regard to the question whether the groups commencing with n are to be ranked in this class, see the note to ii. 38. If denied sphotana, they would fall under IV. 2. a.

It would seem most natural to regard a mute as relieved by sphotana

of its modification by abhinidhana; and if any of these subtle euphonic changes mutually exclude one another, the two in question must certainly do so. It is not absolutely impossible that the Hindu grammarians may have regarded the name sphotana itself as implying suspension of abhinidhana, and so have saved themselves the trouble of specifically teaching the fact of such suspension: yet I cannot think this likely, and so have combined the modifications as they are given above. The admission of a nullifying effect in the sphotana would remove merely the abhinidhana of one consonant; changing, for instance, dd*g to dd*g.

It remains only to take notice of a peculiar class of cases, where a final surd mute comes to stand before an initial sibilant, and their combination undergoes (according to the rules ii. 6, 8, 9) certain euphonic modifications, which are not usually represented in the manuscripts or

in the edited text.

X. Combinations of a final surd mute with an initial sibilant. 1st, with aspiration of the surd: ts (as ths), tsy, tsr, tsv, tstr;—2nd, with aspiration, duplication, and abhinidhâna: ks (as kkhs), ts, ps, ksth, psv;—3rd, with insertion and abhinidhâna: ts (as tts), tsv, ns (as nks), nsh.

Akin with a part of this last class is the combination of n and s, with insertion of t; I have not brought it in here, because the inserted letter is regularly given in the printed text. It might be made a question whether all these inserted mutes are not liable to be converted into aspirates by the action of rule ii. 6, so that we ought to speak tths, nths, nths, etc. But, considering the want of explicitness of the treatise upon this point, and the uncertainty whether the inserted mute is properly to be regarded as appended, in the character of a final, to the former word, I have thought myself justified in adopting for the combinations in question the simpler mode of utterance.

In order to facilitate the determination, with regard to any given group, of its occurrence in the Atharvan text and of the phonetic form to which the rules of the Prâtiçâkhya reduce it, I add an alphabetical list of all the groups, each followed by its theoretic mode of pronnnciation, and by a reference to a passage of the text where it occurs. As in the preceding examples, a sonnd which has suffered abhinidhâna is marked by a smaller letter; a yama, or nasal counterpart, has a straight line above it; the nâsikya is expressed by a superior n; the two svarabhaktis, shorter and longer, by a heavy dot and a little circle respectively; the sphotana, by a snperior s. Where a group has the phonetic form given it only when composed of final and initial letters taken together, the division between final and initial is made by an interposed period.

I. Groups of two consonants:

kk (kk: iv. 19. 6), kc (kkc: i. 6. 3), kn ($kk\bar{n}$: viii. 10. 18), kt (kkt: i. 23. 1), kth (kkth: i. 10. 3), kn ($kk\bar{k}n$: i. 23. 1), kp (kkp: i. 14. 1), km ($kk\bar{k}m$: i. 25. 1), ky (kky: ii. 33. 2), kr (kkr: i. 12. 1), kl (kkl: ii. 33. 3), kv (kkv: i. 27. 1), ksh (kksh: i. 2. 3), kr (kkhs: iii. 1. 4); khn ($kkh\bar{k}hn$: v. 31. 8), khy (kkhy: iii. 3. 2); gg (gg: ii. 36. 7), ggh (ggh: iii. 19. 6), gj (ggj: iv. 15. 2), gd (ggd: iv. 3. 1), gdh (ggdh: i. 10. 2), gn (gggn: i. 6. 2), gb (ggb: iii. 27. 6), gbh (ggbh: iii. 6. 6), gm (gggm: ii. 2. 3), gy (ggy: vii.

44. 1), gr(ggr: i.10.1), gl(ggl: iv. 4.7), gv(ggv: iv. 19.5); ghn(gghan): i. 28. 4), ghr (gghr : iv. 3. 1), ghv (gghv : xix. 55. 5); nk (nk : i. 12. 2), nkh (nkh: iv. 10. 1), ng (ng: i. 12. 2), ngh (ngh: iv. 11. 10), nn (nh: v. 22. 2), nj (nnj: v. 4. 8), nt (nnt: xvii. 17), nd (nnd: xiii. 2. 20), ndh $(\dot{n}\dot{n}dh: 1.25.1), \dot{n}n (\dot{n}\dot{n}n: ix. 1.3), \dot{n}p (\dot{n}\dot{n}p: xii. 2.1), \dot{n}m (\dot{n}\dot{n}m: v. 1.$ 1), $\dot{n}y$ ($\dot{n}\dot{n}y$: v. 26. 12), $\dot{n}v$ ($\dot{n}\dot{n}v$: iii. 4. 1), \dot{n} 's ($\dot{n}ks$: iv. 11. 8), $\dot{n}h$ ($\dot{n}\dot{n}h$: iv. 19. 7).

cc (cc: iv. 1. 3), cch (cch: iii. 12. 3), cy (cy: i. 3. 6); chy (chy: ix. 5. 4); $jj \ (jj: i. 11. 4), j\tilde{n} \ (j\tilde{j}\tilde{n}: i. 7. 6), jm' \ (j\tilde{j}\tilde{j}\tilde{m}: iii. 30. 6), jy' \ (jy: i. 1. 3), jr'$ (jjr: i. 7. 7), jv (jjv: iii. 24. 2); \(\bar{n}c\) (\(\bar{n}c\): i. 4. 1), \(\bar{n}ch\) (\(\bar{n}ch\): iv. 8. 4), \(\bar{n}j\)

 $(\tilde{n}j: 1.2.4).$

t.k (tt.k: iv. 18. 3), tt (tt. i. 11. 1), tp (ttp: v. 14. 8), tm (ttm: viii. 6. 15), ty (tty: xix. 44. 6), $t^{*}c$ (tthc: ix. 5. 21), $t^{*}s$ (tts: xi. 1. 2); ddh(ddh: vii. 97. 7), db (ddb: vi. 96. 2), dbh (ddbh: xii. 2. 48), dy (ddy: ii. 2. 1), dr(ddr: xi. 7. 11), dv(ddv: iii. 11. 5); dhy(ddhy: i. 18. 4), dhr(ddhr: vii. 95. 3), dhv (ddhv: viii. 8. 11); nth (nth: x. 9. 15), nd (nd: ii. 7. 3), ndh (ndh: xix. 29. 6), nn (nnn: v. 20. 11), nm (nnm: i. 13. 3),

ny (nny: i. 9. 2), nv (nnv: i. 13. 4).

t'k (tt*k: i. 24. 2), t'kh (tt*kh: iv. 11. 10), tt (tt: i. 9. 1), tth (tth: i. 8. 4), tn (tin: i. 9. 2), tp (ttp: i. 12. 2), tph (ttph: vi. 124. 2), tm (ttim: i. 18. 3), ty (ety: i. 7. 4), tr (etr: i. 1. 1), tv (etv: i. 7. 6), ts (ts: i. 15. 3), ts (ths: i, 13, 3); thn (thin: ii, 30, 1), thy (thy: iii, 4, 7), thy (thy: xiii, 2. 22); $dg (ddg: i. 27. 3), d \cdot g (dd \cdot g: i. 2. 3), d \cdot gh (dd \cdot gh: v. 21. 8), dd$ (dd: i. 28. 1), ddh (ddh: i. 7. 7), dn (ddn: vii. 45. 2), db (ddb: ii. 29. 1), dbh (ddbh: i. 20. 1), dm (dddm: i. 2. 1), dy (ddy: i. 1. 1), dr (ddr: i. 3.8), dv (ddv: i. 2. 2); dhn (dhdhn: i. 14. 1), dhm (ddhdhm: i. 22. 1), dhy (ddhy: i. 8. 2), dhr (ddhr: iii. 12. 2), dhv (ddhv: i. 4. 1); n·k (nn*k: i. 14.2), n.kh (nn.kh: v. 19.3), n.g (nn.g: ii. 1.2), n.gh (nn.gh: iii. 10. 11), nt (nt: i. 15.2), nth (nth: i. 27.1), nd (nd: i. 7.1), ndh (ndh: i. 4.3), nn (nn: i. 7. 5), np (nnp: i. 25. 1), nb (nnb: v. 26. 6), nbh (nnbh: ii. 9. 4), nm (nnm: i. 10.4), ny (nny: i. 2.1), nr (nnr: ii. 35.2), nv (nnv: i.1.1), wsh (ntsh: viii. 9. 17), n.s (nts: viii. 5. 16), nh (nnh: i. 12. 2).

pk (pp*k: viii. 9. 20), peh (pp*ch: vi. 48. 3), pt (ppt: i.1. 1), pn $(pp\bar{p}n: ii. 11. 1), pp (pp: iii. 17. 5), pm (pp\bar{m}: iii. 31. 1), py (ppy: i. 14. 3), pr (ppr: i. 7. 2), pl (ppl: iii. 6. 7), pv (pv: iii. 2. 5), ps (pps:$ vi. 2.2), ps (pps: ii. 2.3), ps (pphs: i. 6.2); bg (bbsg: xviii. 2.6), bj (bbj: viii. 4. 1), bj (bbsj: xix. 21. 1), bd (bbd: ii. 24. 6), bdh (bbdh: v. 18. 4), bb (bb: xix. 21. 1), br (bbr: i. 6. 2), bl (bbl: xi. 9. 19), bv (bv: xiii. 1. 15); bhn (bbhohn: iii. 8. 6), bhn (bbhbhn: x. 3. 3), bhy (bbhy: i. 4. 3), bhr (bbhr: i. 1. 1), bhv (bhv: v. 2. 7); mn (mmn: ii. 36. 2), mn (mmn: ii. 25. 2), mp (mp: iii. 26. 5), mph (mph: x. 6. 6), mb (mb: i. 4. 1), mbh (mbh: i. 6. 2), $mm \ (mm: iii. 30. 1), my \ (mmy: i. 11. 2), mr \ (mmr: ii. 24. 3), ml$

(mml: viii. 6. 2), mv (mv: vi. 56. 3).

yy (yy: i. 1. 3), yv (yyv: i. 11. 4); rk (r^*kk : iii. 3. 2), rg (r^*g : vi. 69. 2), rgh (r*ggh: i. 22. 2), rc (r*cc: i. 2. 3), rch (r*cch: xx. 34. 12), rj (r*jj: i. 2. 1), rn (ran: i. 10. 4), rt (ret: i. 28. 2), rth (reth: i. 7. 6), rd (red: i. 22.2), rdh (r*ddh: i. 9.3), rn (r*nn: i. 1.3), rp (r*pp: i. 2.1), rb (r*bb: i. 1. 1), rbh (rbh: i. 11. 2), rm (rmm: i. 4. 1), ry (ryy: i. 3. 5), rl (rll: i. 18. 1), rv (r'vv: i. 2. 2), rc (roc: iv. 4. 7), rsh (rosh: i. 5. 4), rh (rohh: i. 8. 4); lk (llk: v. 17. 4), lg (llg: ii. 36. 1), lp (llp: iii. 8. 1), lph (llph:

x. 2. 1), lb (llb: iv. 2. 8), lm (llm: ii. 30. 3), ly (lly: vi. 11. 3), ll (ll: ii. 32. 5), ll (ll: iv. 38. 5), lv (llv: ii. 31. 1), lg (llg: vi. 30. 2), lh (llh: v. 22.

5); vn (vvn: vi. 2. 3), vy (vvy: i. 3. 1), vr (vvr: ii. 1. 1).

zk (zk: i. 4. 3), zkh (zkh: i. 6. 4); cc (cc: i. 5. 4), cch (cch: ix. 3. 14), cn (cch: i. 11. 4), cp (cch: iv. 5. 6), cm (cch: i. 2. 2), cp (cp: i. 7. 5), cr (cch: i. 12), ch (cch: i. 31. 3), ch (cch: i. 1. 1), ch (cch: i. 5. 2); shk (shshk: i. 11. 3), sht (sht: i. 3. 1), sht (sht: i. 2. 4), shn (shn: i. 13. 4), shp (shshp: i. 1. 2), shm (shshm: i. 12. 3), shy (shshy: i. 14. 1), shv (shshv: i. 2. 1), shsh (shsh: xi. 5. 2); shh (shsh: i. 13. 2), shh (shsh: i. 16. 1), shh (shsh: xi. 5. 2); shh (shh: i. 13. 2), shh (shh: i. 16. 1), shh (shh: xi. 5. 2); shh (shh: i. 17. 2), shh (shh: ii. 18. 4), shh (shh: ii. 19. 3), shh (shh: ii. 19. 4), shh

 $hn\ (h^nnn: ii. 34.5),\ hn\ (h^nnn: ii. 33.3),\ hm\ (h^nmm: i. 8.4),\ hy\ (hyy:$

i. 8. 4), hr (hrr: iv. 15. 14), hl (hll: xviii. 3. 60), hv (hvv: i. 4. 3).

II. Groups of three consonants:

kksh (kksh: xix. 24. 2), kty (kkty: i. 12. 3), ktr (kktr: iii. 30. 6), ktv (kktv: iv. 31. 4), kthy (kkthy: vi. 9. 1), kthn (kkth\(lambda\)n: xx. 136. 4), kny (kk\(lambda\)ny: i. 23. 3), kpr (kkpr: ix. 1. 10), kshn (kkshn: ii. 33. 3), kshn (kkshn: vii. 89. 1), kshy (kkshy: i. 8. 3), kshv (kkshv: ii. 2. 1), ksth (kkhsth: xx. 134. 3); gdhy (ggdhy: iv. 33. 1), gdhv (ggdhv: v. 18. 10), gny (gg\(lambda\)ny: ix. 1. 12), gbhy (ggbhy: x. 6. 12); ghny (ggh\(lambda\)ny: iii. 30. 1), ghry (gghry: xii. 2. 4); \(lambda\)kr: (\(lambda\)kr: v. 20. 9), \(lambda\)kl (\(lambda\)kl: vi. 138. 1), \(lambda\)kv: x. 7. 1), \(lambda\)ksh: i. 5. 4), \(lambda\)khy (\(lambda\)khy: iv. 16. 5), \(lambda\)gy (\(lambda\)gy: iv. 37. 2), \(lambda\)gr (\(lambda\)gr: xiv. 1. 38), \(lambda\)gl (\(lambda\)gl: iv. 38. 3), \(lambda\)ghr (\(lambda\)gh\(lambda\)r: xiii. 2. 60), \(lambda\)ghr (\(lambda\)ghr: xiii. 3. 6), \(lambda\)gr (\(lambda\)ghr: xiii. 3. 5), \(lambda\)gr (\(lambda\)gr: xiii. 2. 60), \(lambda\)ghr (\(lambda\)ghr: xiii. 3. 6), \(lambda\)gr (\(lambda\)gr: xiii. 3. 5), \(lambda\)gr (\(lambda\)gr: xiii. 5. 5).

cehr (cehr: iii. 12. 2), cehl (cehl: x. 2. 1), cehv (cehv: xviii. 3. 18), cñy (ceñy: xii. 4. 30), jjñ (jjñ: ii. 12. 7), jjy (jjy: vi. 61. 1), jjv (jjv: iii. 11. 8), jñy (jjñy: xiv. 1. 44); ñchy (nchy: xi. 9. 17), ñchr (nchr: iv. 8. 3), ñchl (nchl: xviii. 1. 33), ñchv (nchv: xi. 10. 23), ñjñ (njñ: iii. 14. 4), ñjy (njy:

i. 9. 1).

ttv (utv: iii. 4. 1), tpr (upr: xi. 4. 12), tev (utv: viii. 9. 9); ddhy (ddhy: xi. 1. 31), dbr (ddbr: xi. 8. 30), dbhy (ddbhy: iii. 3. 4); ndy (ndy:

vi. 138. 2), nny (nny: vi. 77. 2).

tkr (tt.kr: ii. 12.6), t.kv (tt.kv: ix. 9. 17), t.ksh (tt.ksh: ii. 8.2), tty (tty: v. 6. 10), ttr (ttr: vi. 107. 1), ttv (ttv: i. 23. 4), tny (ttny: ii. 12. 1), tpr (ttpr: ii. 34. 2), tpl (ttpl: v. 5. 5), try (ttry: ii. 8. 2), trv (ttrv: vi. 40. 2), tsm (tsm: vii. 52. 2), tsy (tsy: xi. 3. 37), t-sy (thsy: iii. 13. 4), t-sr (ther: xii. 4. 34), tev (tev: ii. 5. 4), tev (thev: iii. 3. 1); degr (ddegr: ii. 10. 6), ddy (ddy: iv. 19. 6), ddr (ddr: ii. 10. 1), ddv (ddv: vi. 107. 2), ddhy (ddhy: xii. 2. 3), ddhr (ddhr: vi. 87. 3), ddhv (ddhv: iv. 14. 2), dbr (ddbr: i. 32. 1), dbhy (ddbhy: ii. 33. 5), dbhv (ddbhv: xviii. 4. 26), dmy (ddamy: v. 23. 13), dvy (ddvy: iv. 19. 6), dvr (ddvr: vii. 90. 1); dhny (dhdhny: iv. 1. 1), dhry (ddhry: iv. 29. 4); n.kr (nnskr: ii. 31. 2), n.ksh (nnsksh: x. 4. 8), n'gr (nn⁸gr: viii, 7. 11), nty (nty: i. 3. 7), ntr (ntr: i. 3. 6), ntv (ntv: i. 4. 2), nts (nts: viii. 6. 8), ndy (ndy: ii. 14. 2), ndr (ndr: viii. 8. 9), ndv (ndv: ii. 11. 3), ndhy (ndhy: vi. 25. 3), ndhr (ndhr: iv. 16. 7), ndhv (ndhv: v. 13.7), nny (nny: v. 5.5), npr (nnpr: i. 10.2), nps (nnps: x. 3. 14), nbr (nnbr: i. 29. 1), nbhr (nnbhr: v. 22. 12), nmy (nnmy: xi. 10. 13). nvy (nnvy: iv. 3. 1), nvr (nnvr: xv. 3. 1).

pty (ppty: i. 28. 4), ptv (pptv: iv. 5. 6), pny (pppny: iv. 9. 6), psy (ppsy: x. 9. 7), psv (pphsv: i. 4. 4); bdhv (bbdhv: i. 8. 2); mny (mmny: iv. 7. 5), mpr (mpr: i. 7. 4), mpl (mpl: ii. 33. 4), mps (mps: x. 5. 43), mbr (mbr: i. 8. 4), mbhr (mbhr: vi. 120. 2), mml (mml: vi. 66. 3).

rksh (r*kksh: xviii. 2. 31), rgy (r*ggy: ix. 2. 14), rgr (r*ggr: iii. 2. 5), rjy (r*jy: vii. 22. 1) rny (r*ny: ii. 25. 1), rtt (r*tt: ii. 7. 5), rtn (r*tīn: i. 1. 3), rtm (r*tīn: iii. 8. 6), rty (r*ty: iii. 31. 2), rtr (r*tr: x. 1. 30), rtv (r*tv: i. 4. 3), rts (r*ts: v. 7. 1), rdy (r*dy: vii. 6. 1), rdr (r*ddr: vii. 28. 1), rdv (r*ddv: vi. 12. 5), rdhn (r*dd\(\frac{1}{2}\)nii. iv. 39. 1), rdhy (r*dd\(\frac{1}{2}\)ny (r*ny: ii. 14. 3), rthr (r*dd\(\frac{1}{2}\)nr (v. 18. 1), rdhv (r*dd\(\frac{1}{2}\)nr (iii. 26. 6), rny (r*ny: ii. 14. 3), rpy (r*ppy: ix. 2. 22), rbr (r*bbr: iii. 20. 5), rbhy (r*bbhy: i. 12. 4), rbhr (r*bhr: v. 1. 1), rmy (r*my: iv. 5. 5), rvy (r*vvy: iii. 17. 3), rvr (r*vvr: i. 16. 1), r\$\(\frac{1}{2}\)v (r*\(\frac{1}{2}\)sy (r*\(\frac{1}{2}\), rhv (r*\(\frac{1}{2}\)sy (r*\(\frac

xkl (xkl: ii. 2. 5), xkr (xkr: ii. 32. 1), xksh (xksh: ii. 8. 5); ccy (ccy: x. 1. 13), crv (ccrv: xiv. 2. 26), cvy (ccvy: viii. 3. 15), ccm (ccm: v. 31. 8), ccy (ccy: v. 5. 8), ccr (ccr: iii. 17. 2), ccl (ccl: v. 20. 7), ccv (ccv: viii. 5. 11); shkr (shshkr: ii. 34. 1), shty (shty: i. 12. 1), shtr (shtr: viii. 2. 27), shtv (shtv: i. 22. 3), shthy (shthy: i. 9. 3), shny (shny: ii. 3. 1), shnv (shnv: iii. 19. 5), shpr (shshpr: iv. 10. 4), shmy (shshmy: ii. 32. 3); sty (sty: ii. 32. 3), str (str: i. 8. 1), stv (stv: i. 10. 3), sthn (sththn: iv. 12. 1), sthy (sthy: iv. 12. 3), sphy (ssphy: xi. 3. 9), smy (ssmy: iv. 32. 6), svy (ssvy: v. 28. 10), ssk (ssk: ix. 7. 3), sst (sst: i. 8. 3), ssth (ssth: i. 31. 2), ssn (ssn: vi. 115. 3), ssp (ssp: iv. 16. 4), ssm (ssm: v. 22. 10), ssy (ssy: ii. 10. 7), ssr (ssr: ii. 3. 3), ssv (ssv: i. 19. 3); qpr (qpr: i. 7. 5), qpl (qpl: ix. 7. 12).

 $hny (h^n ny : x. 8. 18), hny (h^n ny : vi. 110. 3), hvy (hvvy : iv. 17. 2).$

III. Groups of four consonants:

kshmy (kkshmy: i. 18. 1), ńkshņ (ńkshņ: v. 20. 1), ńkshv (ńkshv: iii. 12. 6); t-str (thstr: vi. 11. 1), ntry (ntry: ii. 31. 4), ntst (ntst: ii. 35. 2), ntsth (ntsth: v. 2. 4), ntsp (ntsp: viii. 3. 7), ntsv (ntsv: iv. 5. 1), ndry (ndry: x. 2. 9); rkshy (r*kkshy: vii. 85. 1), rtvy (r*ttvy: viii. 10. 22), rtsy (r*tsy: x. 1. 21), rshny (r*shny: vi. 24. 2); xkshv (xkshv: viii. 3. 7), shtry (shtry: iv. 1. 2), sstr (sstr: vii. 95. 3).

There is no group of five consonants in the Atharva-Veda: if, however, the order of two words in i. 8. 1 had been reversed, we should have had a group of six, viz. ntstry (pumant stry akah). The fact deserves to be remarked here, although familiar to all students of the Vedas, that by no means all the groups of four and three consonants, or even of two, were, in all the cases of their occurrence, actually such groups to the makers of the hymns: in a majority of the passages where a y or v follows two or three other consonants, and very frequently where they follow a single consonant only, they are, as the metre shows, to be read as i or u, or i or u, constituting separate syllables. Those combinations which seem most difficult of enunciation are thus often relieved of a part or the whole of their harshness. Rarely (as at v. 28. 10), an apparent group of three consonants is to be resolved into two separate syllables.

4. Longer Metrical Passages cited by the Commentator.

In the notes on the text, I have passed over two extracts of considerable extent, made by the commentator from unnamed sources, and I now offer here the text of them. The first is found under rule i. 10; it runs as follows:

apara âha: caturtho hakârene'ti:

- pañcâi 'va prathamân sparçân âhur eke mantshinah, teshâm gunopasamcayâd ânyabhâvyam pravartate.
 - jihvâmûlîyaçashasû upadhmânîyupañcamâh, etûir qunàih samanvitâ dvitîyâ ili tân viduh.
 - 3. ta eva saha ghoshena trtiyâ iti tân viduh, ûshmanû ca dvitiyena caturthâ iti tân viduh.
 - prathamáh saha ghoshena yadá syur anunásikáh, tán áhuh pañcamán sparçáns tothá varnagunáh smrtáh.
 - na tu hi vyañjanasamdhir asamyogo bhavet punah, samyogaç ca prasajyeta kramo vácyah punar bhavet.
 - dvitvaprāptic caturtheshu hakâro hy atra kâra, dvitiyeshu tu tan nā 'sti sasthāne tannivâranāt.
 - pippalyádishu yad dvitvam szarác chabdavidhih krtah, jňápakanc ca dvitíyánám dvitvaprápter iti sthitih.
 - gunamātrā nu tatrāi 'shām apūrnam vyanjunam kvacit, apūrne vyanjane kramah samyogoç ca kuto bhavet.
 - 9. pṛthaksattvāni paçyāmas tulyalingāni kāni cit, na teshām lingasāmānyād ekatvam pratijāyate.
 - sattvaprthaktvád dváilingyam yad eteshu nibodha tat, tathái 'va pañcavargena gunamátrena tulyatá.

The other passage is the commentator's introduction to the fourth chapter:

samásávagrahavigrahán pade yatho 'váca chandasi çákatáyanah; tathá vakshyámi catushtayam padum námákhyátopasargampátánám.

II. 1. âkhyâtam yat kriyâvâci nâma sattvâkhyam ucyate, nipâtâç câdayah sarva¹ upasargâs tu prâdayah.

 nāma nāmnā 'nudāttena samastam prakṛtisvaram, na yushmadasmadvacanāni na cā "mantritam ishyate.

- nâmâ 'nudâtlam prakrtisraro gatir anucco vâ nâma cet syâd udâtlam, kriyâyoge gatih pûrvah,² samâso yâvanto 'nuccâh samarthâns tân samasyate.
- 4. yatra 'neko 'nudatto 'sti paraç ca prakṛtisvarah, akhyatam nama va yat syat sarvam eva sama-yate.
- sopasargam tu yan nîcâih pûrvam vâ yadi vâ param,* udâttena samasyante tathâi 'va supratishthitam.
- udåttas tu nipåto yah so 'nudåttah kvacid bhavet, samasyante tuthå vidhim itihåso nidarçanam.
- 7. naghârishâm susahe 'ty evamâdîny udâharet, sahe 'ty anenâ 'nudâttam param nama samasyate.
- anudåttena co 'dåttam svabhåvo yatra co 'cyate, sahasûktavûkah sântardeşâh şatakrato nidarşanam.

¹ cádayo satva.

² gatishûrvah.

³ pûrvavâyadivâpadah.

- anudâtto gatir¹ madhye pûrvaparâu prakṛtisvarâu, pûrvena vigrahas tatra purushe dhi samâhitâh.
- udáttánugatir yatrá 'nudáttam param padam, pûrvena vigrahas tatra' sam subhûtyá nidarçanam.
- 11. yatro bhe prakrtisvare pûrvam yac ca param ca yat, varjayitvá "dyudáttáni sarvam eva samasyate.
- nâ "khyâtâni samasyante na câ "khyâtan ca nâma ca nâma nâmno 'pasargâis tu sambandhârtham' samasyate.
- na yushmadasmadadeçâ anudâttât padât pare, nâmopasargagatibhih² samasyante kadâ cana.
- mám anu pra te pra vám ityevamádiny udáharet, etadar cconudáttáni idam asya tathái va ca.
- 15. nâmopasargagatibhih³ samasyante kudà cana, bṛhann eshâm ya enâm vanim âyanti pary enân pary asye 'ti nidarçanam.
- anudâtto gatih sarvâih samastuh svaritâdibhih, samsrâvyena' durarmanya ûcârye 'ti nidarcanam.
- pra-pară-ni-sam-à-dur-nir-avâ-'dhi-pari-vini ca, aty-abhy-api'-sû-'d-apâ ya upâ*-'nu-pratir vinçatih.
- ekâksharâ udâttâ âdyudâttâs tathâ 'pare, abhî 'ty anta upasargâḥ kriyâyoge gatis tathâ.
- âdyudáttá daçái 'teshâm uccá ekâkshará nava, vinçater upasargánám antodáttas tv 'abht 'ty ayam.
- achâ-'ram-astum-hasta-lânyûla'-tirah-purah'-punar-namah'-kshitî-vâtî'o-phalî-hin-srug'i-vashaţ-prâdur'²-ulâ-kakojâ-svâhâ-svadhâ-çrat-svaralale 'ty upasargavṛttîni yathâstâta-svarâni.

Of this passage, the preliminary sentence (or verse) has been already translated, in the introductory note to the fourth chapter. The first verse gives a definition of the four parts of speech—or rather, a definition only of the verb and noun, the prepositions and particles being referred to as the two series commencing respectively with pra and ca (compare Pan. i. 4. 57, 58, and the lists of prepositions in the other Praticakhyas). Thenceforward, from the second to the sixteenth verse, inclusive, the extract is occupied with giving directions for the combination or non-combination, in the pada-text, of the various parts of speech, as they stand in juxtaposition with one another in connected discourse. The text of the Veda is assumed as existing in an utterly disjoined state, each independent element being known in its phonetic form (including its accent), and as such and such a part of speech; and the attempt is made to define the cases in which the elements form compounds with The problem, however, is evidently much too extensive one another. and difficult to be so briefly solved—if, indeed, any solution of it is possible without taking into account also the inflectional forms of the nouns and verbs—and the system of rules laid down is only fragmentary: but I have not taken the trouble to test them by the text, so as to

¹ anudáttonugavir.

^{*} sainsâvyaņi.

¹ hantolángûlain.

¹⁰ vákshíti.

² samvadhartham.

abhipi.

punah.
hinsrak.

namop.

apáyánnítyupá. navah

navah.

12 gudur.

determine where their deficiencies lie. The second verse informs us that a noun which has its natural accent is compounded with another which is unaccented, except in the case of an enclitic pronoun of the first and second persons, or a vocative: thus we must combine tri: saptâ/h (i. 1. 1), çatâ : vṛshnyam (i. 3. 1), into tri-saptâ/h, çatâ-vṛshnyam. The next verse and the one following treat of the combination of nouns and verbs with prepositions and other words employed as prepositions: these receive here and in what follows the name gati, which Panini also (i. 4. 60 etc.) uses. Verse five has for its subject such compounds as are instanced by súpratishthitam (xii. 1.63: p. sú-pratisthitam). The sixth verse applies to compounds into which a particle enters as a constituent, and cites itihâsáh (xv. 6.4: p. itiha-âsáh) as an example; and the first line of the next verse adds the farther instances nagharishâ'm (viii. 2, 6; 7, 6: p. nagha-rishâ'm) and súsaha (vi. 64.3: p. sú-saha). Hence to the end of verse 8, compounds with saha (and its substitute sa) are defined, the chosen illustrations being sahásûktavákah (vii. 97. 6: p. sahá-sûktavákah) and sáintardeçáh (ix. 5. 37: p. sá-antardeçáh): çatakrato is also added, but apparently only by a blunder; or rather, the reading is probably false and corrupt, as the metre helps to show. Verse 9 prescribes the mode of combination in such a case as púrushé 'dhi sama'hitah (x. 7. 15), where an unaccented preposition stands between two others, both of which have their proper accent. The next verse takes for its example sám súbhûtyû (iii. 14. 1), where two accented prepositions precede an unaccented noun, and the former of them is to be made independent. Verse 11 has no example, and, although easily enough translated, its meaning is to me obscure. We are then told what combinations are possible: verbs are not compounded with verbs or with nouns; but nouns with nouns and with prepositions. A verse and a half follows, denving the enclitic forms of the first and second personal pronouns the capability of entering into compounds, and citing as instances mâ'm ánu prá te (iii. 18.6) and prá vâm (e.g. vii. 73.5): and three additional lines extend the same exception to the enclitic demonstrative pronouns, and give the examples brhann esham (iv. 16.1), yá enâm vaním âyánti (xii. 4. 11), páry enân (ix. 2. 5), and páry asya (xv. 12.7). The sixteenth verse declares an unaccented preposition capable of composition with a following word, however accented, but illustrates only their composition with a circumflexed word, as samsrâvyèna (e. g. i. 15. 1), durarmanyàh (xvi. 2. 1), and âcâryàh (xi. 5. 3 etc.). The subject now changes, and verses 17-19 give us a list of the twenty prepositions and a definition of their accentuation. Finally, the last verse (or prose passage) attempts to give a list of those words which are treated as if they were prepositions, although properly belonging to other classes. This list is a somewhat strange one, with regard both to what it includes and what it omits. A part of the forms which it contains are in frequent use, and familiarly known as bearing marked analogies with the prepositions proper. Such are achâ, tirah, purah, punah, hiń, praduh, and crat. Others, as aram and astam, are more remotely connected with the same class. Vashat, svåhå, and våtî are in the Atharvan compounded only with kara and krta, and hardly in such a manner as should require their inclusion in the list. Svadha

and sruk form no other compounds than svadhākāra and srukkāra (ix. 6.22); pholî forms phalîkarana (xi. 3.6); kakajā forms kakojākṛta (xi. 10.25). Namas enters into namaskāra, namaskṛta, and namaskṛtya (vii. 102.1), which last affords actually good ground for special treatment, as does hastagṛhya (e. g. v. 14.4), on account of which hasta is ranked with the others. For lāṅgūla, kshiti, and ulā, I can find nothing at all in the Atharvan: there is room in the case of the two last, and especially of the third, to suspect corrupted readings. What may be hidden in svaralalā, I have not been able to discover, nor how the last word in the extract, which apparently has to do with the accent of the words treated of, is to be amended into intelligibility. There are two words which we especially miss in this list of upasargarṛttīni, and can hardly believe to have been originally absent from it: they are antah and āvih: I cannot, however, find by emendation any place for them in the text as it stands.

5. Corrections and Emendations.

I add here a rectification of certain errors in the body of the work, which have attracted my attention as I have been engaged in preparing the indexes; as also, corrections of such errors of the press as I have hitherto discovered.

At p. 355, rule i. 24, for तिहुामूं read तिहुाग्रं.

At p. 371, rule i. 47, translation, for palatal read lingual.

At p. 378, l. 16, for karpanyam read karpanyam.

At p. 409, in commenting upon ii. 15, 16, I failed to notice that the implication in the former rule is of catavargābhyām, 'after palatal and lingual mutes,' and mutes only: hence this rule has nothing to do with any cases practically arising in the conversion of pada into sanhitā, and rule 16 covers all the lingualizations of t and th after sh, whether in the same or a different word.

At p. 419, rule ii. 29, at the end, for °दीनास् read °दीनाम्.

At p. 436, comm. to ii. 62, l. 4, the hyphen representing the avagraha has dropped out from vievatah pāṇih.

At p. 436, comm. to ii. 62, l. 28: another like instance of repetition is found at xx. 132. 12, where all the MSS. read punah punah.

At p. 437, rule ii. 64, translation: for is read does.

At p. 442, rule ii. 76, at the end, read our (broken letter).

At p. 448, under rule ii. 92, I was so heedless as to refer to vy asthan (xiii. 1. 5) as an anomalous form from sthâ, forgetting for the moment that it was, in fact, the irregular agrist of the root as, although I had formerly interpreted and indexed it as such. The pada-reading is vi: asthan, as given by our manuscript; but it seems to require amendment to vi: asthat, having robitah as subject.

At p. 450, rule ii. 97, comm., l. 3: for stusha u shu read stusha u shu. At p. 456, comm. to iii. 5: a compound analogous with oshadhija is pṛthivi sad (pṛthivi shadbhyah: xviii. 4. 78), which has also a claim to the attention of the Prâtiçâkhya in this part. Its sh was prescribed by ii. 100.

At p. 514, at the top, introductory note to chapter iv, I have expressed myself in a manner which misrepresents and does injustice to the Vâj. Pr. Although that treatise does not make the restorations of normal form in pada the subject of detailed treatment, yet its rules iii. 18, 19 (as pointed out in the note to iv. 74, above) virtually cover the ground, with more or less completeness.

At p. 539, under rule iv. 53, I have omitted the reference belonging

to rksâmâbhyâm: it is xiv. 1. 11.

At p. 544, rule iv. 59 would have been more accurately translated "nor is division made before any member having an inserted s as its initial," etc. Whether, however, there is any propriety in regarding the inserted sibilant of tuvishtama, and of the other words cited, as the initial of the second member of the compound, is very questionable.

At p. 583, l. 32, for vavrdhanah-iva read vavrdhanah-iva.

The indexes eall for but a few words of explanation.

Into the first I have admitted all distinct references to single passages of the Atharva-Veda, made by either the text or the commentary of the Prâtiçâkhya, distinguishing those of the latter always by an appended c. Words or brief phrases found at two or more places in the Atharvan (and so referred in the notes to the first of them, with a prefixed e.g.) are made no account of unless they are of peculiar and distinctive character; and, when noticed, they are marked here also by an added e.g., or, if found only in a series of passages occurring in the same connection (as in different verses of the same hymn), by an added etc. I have also included in the index all passages to which important reference has been made in the notes on the text, as for the purpose of amending a reading, giving account of an emendation made in the edited text, stating the manuscript anthority favoring or opposing a given reading, or the like: these are distinguished by an n affixed to the Prâtiçâkhya reference.

The second, or Sanskrit index, comprises, in the first place, the whole vocabulary of the treatise itself, both its grammatical phraseology and its citations from the Atharvan, the latter being denoted by a prefixed a. I have added as much of the vocabulary of the commentary as seemed to me worth the trouble, adding always a c to the reference. The pseudo-citations of the commentator, or the illustrations which he fabricates or derives from other sources than the Atharva-Veda, are also (excepting the phrases given in the latter part of add. note 2) included in the index, and marked with a prefixed q. This same indicatory letter is set before the few words quoted in the text of the treatise which are not found in the Atharvan.

In the third index it has not seemed to me worth while to make detailed references to the doctrines of the other treatises referred to in the notes; they may always be found stated in connection with the treatment of the related subject by our own Prâtiçâkhya.

INDEXES.

1. INDEX OF ATHARVAN PASSAGES,

CITED OR REFERRED TO IN THE TEXT, COMMENTARY, AND NOTES.

An e. g. added to the Atharvan reference marks it as denoting one of two or more passages where the word or phrase cited is found; an etc., as denoting the first verse of a hymn or passage to which the reference applies. A c added to the Prâtiçâkhya reference marks it as belonging to the commentary; an n, to the editor's note. The passages of the commentary given in add. note 4 are indicated by 4. II. 16 etc.

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3 34. 4	iii. 96, iv. 59. iv. 4c.	126. 1 128. 3	iv. 14c.	6 115.2	iv. 28e. ii. 56.
35. 2	iv. 32c.	129.1	ii. 51c, iv. 52c. i. 85c.	115.2	iv. 77c.
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3	ii. 36c.	134.3 136.2 137.3	iv. 93c.	AV. viii. 1, 20	
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50. 1	iv. 107c.	6.1	iv. 26c.	16	iii. 80c.
51.3	iv. 86c. ii. 26c.	2	iv. 26c. ii. 97c, iii. 4c, iv.	26	iii. 80c. 1. 28c, ii. 19c, iii.
			voc.		WO'CI
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67.2	ii. 15c.		i. 65e. ii. 71c.	16 6. 1	ii. 84c.
3	iii. 52c	17. 1 18. 1	iii. 56c, 65c.	4	iii. 84c.
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	III. ADC ASC DROL	26. 1	iii. 16n (to IL4.b).	9	iv. 18c.
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2. Sanskrit Index.

A prefixed a marks a word or phrase as a citation from the Atharva-Veda; a prefixed q, as a quotation in the text or commentary not taken from the Atharvan. Other signs are used as in the preceding Index.

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Vowels $(a, \dot{a}, i, i, u, \dot{a}, r, \hat{r}, l, e, \dot{a}i, o, \dot{a}u)$: belong to various classes of sounds, i. 19n-21n, 25n; degree of contact of organs in production of, i. 32-36; nasal vowels, i. 27n; quantity of vowels, i. 59-62; combinations of vowels, iii. 39-54; resulting accent, iii, 55-61, 65, 66. See also the different letters, also Nasal vowels, and Diphthongs.

treated in pada-text, iv. 55.

grammarians upon this point, ii. 40n; y: palatal semivowel, i. 21n, 30n; dropped when final after a vowel, ii. 21; or has attenuated utterance, ii. 24; visarjaniya before a vowel converted into, ii. 41.

sounds, i. 26n; when inserted, i. 99; their phonetic value, i. 99n; how writ-

ten in the commentary, i. 99n.

ERRATA.

p. 5, l. 8-for ऽऽसत्ति read ऽऽसीत्.

p. 9, l. 16-for ਪ੍ਰਦੇ read ਪ੍ਰਦੇ.

p. 16, L 11-for not wait to be entreated read not turn the back on them.

p. 18, l. 33-for at an read as an.

p. 20, 1. 22-for matronymic read metronymic.

p. 21, l. 4-for Kártikeya read Kárttikeya.

p. 22, l. 34-

p. 26, l. 16—the plate has दिग्पाल-.

p. 32, l. 17—for - नैध्- read - नैध्-.

p. 61, l. 13-for 'at-Tarmidhî read 'at-Tarmidhî's.

p. 72, l. 5—for عند الرحمن read عبد الرحمن. " l. 34—for 'Abdallah read 'Abdallah; and for 'Abd 'ar-Rahman read 'Abd 'ar-Rahmán.

p. 88, l. 3 from below-for كغول read كقول,

The errata for the Atharva-Veda Prâtiçâkhya are given in the last additional note to that work, just before the Indexes.

PROCEEDINGS

OF THE

AMERICAN ORIENTAL SOCIETY.

New Haven, October 17th and 18th, 1860.

The Semi-annual Meeting for 1860 of the American Oriental Society was held in New Haven, at the residence of Mr. E. E. Salisbury, commencing on Wednesday, October 17th, at 3 o'clock in the afternoon. The President being absent, the chair was occupied by Pres't T. D. Woolsey, the only Vice-President present.

The minutes of the last meeting were read and accepted. Dr. Cogswell of New York, and Mr. Gilman and Prof. Whitney of New Haven were

appointed a Committee of Arrangements for the present meeting.

The Librarian made a brief verbal report respecting the accessions to the Library during the past six months (of which he laid a detailed list upon the table), and respecting its present condition. He invited the members from abroad to visit and examine the Library and Cabinet at their place of deposit in Yale College Library, during their stay in the city.

The Board of Directors recommended to the Society, for election as Corresponding Members, the following gentlemen, accompanying the recommendation with a statement of their claims to membership:

Dr. Adalbert Kuhn, of Berlin.

Dr. Andrew T. Pratt, Missionary at Aleppo.

they were thereupon balloted for, and declared duly elected.

Other gentlemen were, upon the recommendation of the Directors, elected Corporate Members; the names of such of whom as shall have signified their acceptance of membership will be reported at the next meeting of the Society.

The Corresponding Secretary presented the correspondence of the halfyear, reading first the more than usually numerons regrets and excuses for non-attendance which had been received from members compelled by other engagements to be absent from the meeting. Among the letters of

a more general interest were the following:

1. From Rev. C. D. Seropyan, dated Paris, March 2nd, 1860, accompanying the donation of two works on topics in the history of Armenia, by G. V. Shahnazarian, and also enclosing a manuscript of the same author, entitled "Programme of a Collection of Armenian Authors, published under the title 'Armenian Historical Gallery'," of the main part of which a translation (the original is in French) is offered below.

After a few introductory remarks, Mr. Shahnazarian goes on to say:

"After such repeated destructions of our literary monuments—monuments derived in great part from the archives and the schools of Edessa, of Nineveh, of Tarsus, of Antioch, of Alexandria, of Rome, of Athens, of Byzantium, capitals visited and explored, one after another, by most of the Armenian authors—we still possess a considerable number of precious works which time has respected,

"During the three centuries that the Armenians have possessed the art of printing, scarcely fourteen or fifteen historical works* have been published: viz. Agathangelus,1 secretary of King Tiridates, Zenobius,2 Faustus of Byzantium, Korinn, Elisha,3 Lazarus of Phorbis, Moses of Khorene, John Mamikonian, Sebeos, historian of Heraclius, John the patriarch, Mesrob the priest, Aristakes of Lastivert, archimandrite, prince Hethum Rubenian,10 Arakel of Tauris,11 archimandrite, Thomas Ardzruni,12 and perhaps a few others; while the greater number still remain in manuscript, and the learned world is constantly in danger of losing a part of them by some unforeseen accident, as has happened so many times. To bring to light, and to preserve henceforward, the historical works of my country, I have devoted myself during the past fifteen years to searching for manuscript copies of them, especially in the rich library of the patriarchal convent of Edchmiadzin, and in those of the convents of Siunik, of Mgr. Carapet, Armenian archbishop of Tiflis, of the National Museum of Constantinople, of that of Jerusalem, in private collections, and, finally, in the Imperial Library of Paris. After having surmounted difficulties of every kind, and expended much labor and no small sums of money, I have succeeded in forming a considerable collection of these manuscripts, and have undertaken the publication of an Armenian Historical Gallery, to be composed of fourteen anthors of high interest. They are as follows:

"1. Leontius, 13 archimandrite, a writer of the 8th century. He treats of the invasions of Armenia, Georgia, and Caucasian Albania by the Arabs, and of the conquests made by them. I have been able to discover only a single manuscript of his work—but a very correct one—coming from the convent of St. John Baptist, in the pashalik of Museh, and now forming part of the library of the late Mgr. Carapet. On the basis of this unique copy I have published the text, with a French translation.

"2. Stephen Assoghik, "archimandrite, who lived in the 10th century. He composed, in three books, a very learned abridgment of universal history, at the request of the patriarch Sarkis I. He begins with the creation, and ends with the year 1004. I have published the work from three manuscripts, of which one was enpied by myself at Siunik, the second belongs to the Carapet library, and the third to P. Alichan, Director of the Armenian college Samuel Moorat at Paris.

"3. Sembath the constable, prince of Coricos, 15 an author of the 13th century. He composed a book of annals, starting from the year 952. It treats of the principal events in Armenia, of the Lower Empire, and of the Crusades, and is brought down to 1277. I have published an edition of it, founded on three manuscripts

"4. Vahram Rabuni, 16 vardapet, secretary of the Armenian king Leon III, in the 13th century. It relates in verse the history of the Rubenians of Lesser Armenia, where the Armenian family of Rubenians, allied later to the French house of Lusignan, reigned for three hundred years. I have published it from two manuscripts... There was published in 1831 an English translation of the work, by K. F. Neumann.

"5. Stephen Orbelian, 17 mctropolitan of Siunik, also of the 13th century. He has left a complete history of the province of Lissak, and of the different families who have possessed it; among others, of the Orbelian princes, from whom he is himself descended. This chapter was translated by Saint-Martin, and published in 1819, as part of the work entitled Mémoires Historiques et Géographiques sur l'Arménie. Stephen Orbelian gives precious details respecting the invasions of the Mongols; he copies a great number of inscriptions extant at his period, and presents the nomenclature of all the conveuts, villages, cities, and cantons of that province. The whole work includes seventy-five chapters. I have published it from three manuscripts. . . .

"The learned Saint-Martin, lacking a profound knowledge of the Armenian language, and also led astray by an incomplete and faulty manuscript, has fallen into serious errors, which I have pointed out in my edition, and in my explanatory notes.

"These five works, compared, corrected, explained by means of considerable notes, enriched with biographies of their authors, and with an introduction to each vol-

^{*} We add, in connection with the authors and works mentioned in this Programme, references to Mr Dwight's Catalogue of Works in the Armenian Language, published in Vol. iii of the Society's Journal.

Comm. of Publ.

Ournai, 1 See Journ , iii. 246. 2 Ibid , p. 247. 3 Ibid , p. 250. 4 Ibid , p. 247. 5 Ibid , p. 248. 6 Ibid , p. 252. 7 Ibid , p. 256. 8 Ibid , p. 259. 10 Ibid , p. 273. 11 Ibid , p. 277. 12 Ibid , p. 257. 15 Ibid , p. 271. 15 Ibid , p. 271. 15 Ibid , p. 271.

ume, have left the press during the years 1858 and 1859, published almost entirely at my expense. They are to be purchased of the editor, at Paris (No. 86, Rue de

l'Ouest), at 9 francs a volume.

"6. Moses of Albania, so or of Calancaituatz, has just been put to press. This author composed his historical work, in three books, in the first half of the 7th century. It is of great importance, as being the only one which brings to our knowledge the history of Albania, of the Huns, of the Khozars, and of other neighboring races. His story, which breaks off in the middle of the 7th century, has been continued to

the 10th by an anonymous author. I possess four copies of it....

"7. The Universal History of Michael, patriarch of the Syrians, of the 12th century. This extremely interesting work was translated from the Syriac into the Armenian, shortly after the death of its author. I do not know whether the Syriac original is in existence; but the Armenian version, made by Chot, and revised by the learned Vardan Vardapet, and bearing the marks of the decadence of the Armeniau language, leaves nothing to be desired, as concerns its fidelity. My edition of this work will be founded on three mannscripts, the first of which, being complete and correct, belongs to the Armenian Museum of Constantinople, and has been kindly lent me for collation; the second I myself copied at Edchmiadzin; the third, which is incomplete and incorrect, belongs to the Imperial Library of Paris. It is from this latter copy that the learned M. Dulaurier has given an extract in French.

"8. The Chronology of Samuel, 19 priest of the cathedral of Ani, capital of Armonia under the Bagratides; a work of no great extent, but of extreme accuracy, and composed by order of the patriarch Gregory IV, in the 12th century. The method of Samuel of Ani reminds one of that of Eusebius of Cesarea. An anonymous author has continued it down to the 13th century. The edition of Samuel of Ani

will be based upon four copies. .

"9. Mekhithar, 20 a monk of Airivank, a writer of the 13th century, and of immense learning. By means of concentric circles, he has traced a view of the astronomy of his period, and has drawn out, in parallel columns, lists of all sovereigns, pontiffs, patriarchs, and Armenian and foreign authors, adding sundry essays on the creation of the world and on the celestial spheres. I possess of this work at pres-

ent but a single copy, made by myself. . .

"10. Matthew of Edessa, "an author of the 12th century. He throws a vivid light upon the history of the races of Western Asia in the Middle Ages, and especially upon the Crusades. The priest Gregory is his continuer. I possess of his work but a single incorrect copy. The copies belonging to the Imperial Library of Paris and to that of the convent of the Mekhitharists at Venice are unfortunately in the same condition, and of no more value than my own. M. Dnlaurier has this year published Matthew of Edessa in a French translation.

"11. Cyriacus of Gandzak,²² vardapet, a writer of the 13th century. He has composed a History of Armenia, covering a period of near a thousand years. As contemporary, prisoner, and interpreter of the Tatars, he furnishes precious details respecting that people. I have two copies of this history: the first is the more correct, but not complete: it was given me by the Armenian Museum of Constantinople. My second copy is complete, but not very correct: I expect a third, from the library of the Armenian convent of Jerusalem, which will soon be sent me.

"12. Vardan Vardapet of Baretzer-berd, 23 of the 13th century, a fellow-disciple of Cyriacus of Gandzak, profoundly learned, and especially distinguished as a linguist. He has left us a complete history of Armenia from the time of Haik down to his own period. I have but a single copy of it, but expect another from Constantinople.

"13. Malachi the monk,21 likewise of the 13th century. His work is entirely devoted to an account of the invasions of the Mongols, who bore rule in Armenia for

nearly two centuries. A single copy of it is at my disposal.

"14. Thomas of Medzob, "s vardapet, of the 15th century. He has composed, as an eye-witness, a brief history of Tamerlane, and of the principal events of his time. The copy which I have in my hands is very correct; the Imperial Library of Paris also possesses an excellent copy, made at the convent of the Mekhitharists at Veuice upon the collation of four manuscripts. M. Neve has published at Paris, in the year 1855, a study upon Thomas of Medzob and his history."

¹⁸ Ibid., p. 25?.

²² Ibid., p. 267. 23

¹⁹ Ibid , p. 266. 23 Ibid., p. 272.

²⁰ Ibid., p. 271. 24 Ibid., p 271.

²¹ Ibid, p 264. 25 lbid, p. 278.

From Rev. J. Austin Merrick, dated Paris, Ky., Sept. 17th, 1860.
 After expressing his regret at being unable to attend the Society's meeting, Mr. Merrick says:

".... You have doubtless seen newspaper notices of the alleged discovery, in excavating a mound in Newark, Ohio, of a peculiarly shaped stone, described as a truncated pyramid, four or five inches long, and marked on its four sides in low relief with Hebrew characters. It claims to be an Oriental symbol, of unknown antiquity and of a masonic origin, and for these reasons has attracted some attention from Oriental scholars and antiquarians in different sections of the country.

"It is almost needless for me to state that, having been asked my opinion by interested parties, it was unhesitatingly given adversely to the genuineness of the monument as an ancient symbol, or as a work of any character anterior to our own day. Indeed, you will see, by the photographed and traced copies of it herewith forwarded to your address, that it carries its condemnation on its face, as a bungling imitation of the printed Chaldee letters in our later editions of the Hebrew Bible..."

The copies sent by Mr. Merrick were passed around among the members present, and no person was found disposed to differ from the opinion expressed by that gentleman, while some surprise was manifested that so transparent a fraud, or piece of pleasantry, should have made so much stir, and deceived so many people.

Communications were now called for.

1. On the Vocabulary of the Modern Greek Language, by Mr. F. P. Brewer, of New Haven.

After premising that a considerable portion of the words in Modern Greek are the same, or nearly the same, with those of the ancient language, Mr. Brewer considered first the changes of form which they had in many cases undergone, attributing them in part to the degradation of the people, and in part to the phonetical corruptions to which every language is subject. Some words were claimed to preserve ante classical elements, and many new forms to exhibit the carrying out of principles developed in the language during its classical period. The formation of new words as substitutes for old ones was illustrated by numerous examples, classified under several heads. It was shown to be called for in many cases by ambiguities arising from a new pronunciation or from other causes. Some new meanings are the result of metonymy; others are euphemistic. A few contain references to local customs. The Hellenistic phase of the modern language was pointed out as of conspicuous importance, and was traced to its natural cause, in the currency given by the New Testament to the colloquial dialect of the Grecian Jews. In conclusion, Mr. Brewer offered some reflections on the attempts now making to resuscitate the ancient Greek as the cultivated and literary language of the modern kingdom, and considered briefly the probable issue of the attempt and the future history of the language.

Remarks and comments followed the reading of Mr. Brewer's paper, turning especially upon the last point discussed by him, respecting which some diversity of opinion was manifested.

2. On the Oriental Works in the Astor Library, by Dr. J. G. Cogswell, of New York.

Dr. Cogswell laid before the meeting, and read in part, a list of the latest additions to the Oriental department of the Astor Library. He spoke of the warm interest taken by himself in the progress of Oriental study, and of his desire to contribute what he could to its advancement, by providing for special students the means of pursuing their researches to the best advantage; which desire, he said, had led him to give the department a special share of attention in making purchases of books. He cordially invited the members of the Society to examine and make use of the collection, and also to suggest the names of works with which they would desire to see it farther enriched.

3. On the Kings of Mandala, as commemorated in a Sanskrit Inscription of the 17th Century, by Fitz-Edward Hall, D.C.L.

4. Two Inscriptions pertaining to the Paramara Rulers of Malava; the Sanskrit, with Translations and Remarks. By the same.

These two papers form the first two articles in the seventh volume of the Society's Journal, now in process of publication. In the absence of their author, who has recently returned to his post as Inspector of Schools for the Saugor and Nerbudda Territory in India, they were laid before the Society by the Corresponding Secretary. The latter gave some account of Mr. Hall's labors in Sanskrit epigraphy. He described the two classes of inscriptions to which those treated in the papers under notice belong—the one commemorative of the erection and endowment of sacred edifices and their appendages, the other recording formal grants of lands and villages to Brahmans—and read enough of their translations to illustrate the general character of such monuments, as well as the special features of the specimens of them here presented. He pointed out some of the valuable results derived from the inscriptions, or from Mr. Hall's remarks and notes called out by them; especially the correction of Lassen's error respecting the period of Udayâditya of Mâlava.

5. On the Greek Augment, and on Processes of Growth in Language, by Mr. Jacob Wilson, of Canajoharie, N. Y.

Mr. Wilson considered the origin and character of the augment of the Greek verb, which he regarded as identical with the reduplication. He compared it also with certain prefixes in other languages, of which he discussed the significance and mode of development.

6. On Tamil Metre and Music, by Rev. Edward Webb, Missionary at Dindigal, Southern India.

Mr. Webb gave a summary account of the method of construction of Tamil verse, defining and naming first the two kinds of syllables, then the feet, and then the stanzas into which these are combined. He described the attempts of the Christian missionaries in Southern India to introduce our own metres and hymntunes as part of the worship of the congregations of native converts, and the complete failure which had attended them; it had been found impossible to make the natives recognize any measure in the verse, or learn to sing the music. In view of this, an effort had been made to obtain Christian songs written by the converts, in their own metres, and adapted to their own melodies, and with the most satisfactory results. A large number of Christian lyrics had been collected, well suited to be introduced into Christian worship, and calculated to help the cause of Christianity. Translations of a number of these were read by Mr. Webb, and were listened to with much interest and admiration. He also read specimens of the original hymns, in illustration of their peculiar rhythmical character, which would be styled in the West highly artificial, being marked with profuse and elaborate rhyme, alliteration, and assonance. He described the musical modes of the Hindus, accepted throughout all India under the same Sanskrit appellations, briefly indicating their relation to the European scale, and referring to the special adaptedness to the expression of different emotions, and to employment at different seasons and different parts of the day, claimed for them by the natives: finally, as a practical illustration, he sang several of them to the hymns which he had before read.

7. On a Revolution in the Ancient Religion of Greece, by Prof. J. C. Moffat, of Princeton.

Prof. Moffat alluded to the fact that Greek literature bears deep marks of an ancient religious revolution. Viewing the Greeks as belonging to two great divisions, the northern, and the southern with eastern connections, or the Hellenes and the Pelasgi or Ionians, he held that the revolution occurred in the religion of the former, at the meeting of the two races, and in and about Thessaly. The religion overthrown was a nature-worship; that set up in its stead was more akin with the earlier civilization of the region, and presented gods having an independent existence. The head of the new religion was without a proper name in Greek, Zevs

designating him simply as 'god,' and Zevis mario as the 'father god.' The religion came from the Pelasgi, who learned their divine names from the East, especially from Egypt. The Pelasgic Dodona was the earliest Hellenic seat of the Jupiter worship. Prof. Moffat then proceeded to establish, by comparison of traditions and observances, his belief that the Jnpiter of Dodona was identical with the Amun of Ammonium and of Thebes, before the latter absorbed the attributes of the ramheaded god Num: and that the worship of Amun came from Ethiopia, and in its original purity was a true worship of the unseen god, as separate from his worksthe name Amun signifying 'unseen' or 'concealed'. Accepted by the Pelasgi, who worshipped the god without a name, that religion was afterwards communicated by them to the ruder tribes migrating in upon them from the north. The writer then attempted to approximate to the date at which this change in the religion of the Hellenic people took place, and concluded that it was not long before the Trojau war.

In criticism of Prof. Moffat's views, Prof. Hadley, of New Haven, remarked that the word $Z_{\ell ij}$ was proved by the analogy of the kindred languages, especially of the Sanskrit, to mean originally the 'sky,' and to be accordingly the name of a divinity belonging to a nature-religion, while the attributes assigned to the god also

strongly favored the same conclusion.

At this stage of proceedings, the Society adjourned until the next day.

On assembling again on Thursday morning, at half past eight o'clock, at the same place, the Society continued to listen to communications.

8. On the Phonetic Processes exemplified in the English Language, by Prof. J. W. Gibbs, of Yale College.

In this paper the author pointed ont the principal processes of euphonic change developed in the history of the forms of speech of the Indo-European family, and more especially of the Teutonic branch of that family, as they present themselves in the words and forms of the English language, for the purpose of showing the importance of recognizing them in English grammar.

9. On a Recent Memoir by Professor Chwolson of St. Petersburgh, entitled "Remains of Ancient Babylonian Literature in Arabic Translations," by Prof. James Hadley, of Yale College.

This memoir of Prof. Chwolson is printed in a separate form from the Mémoires des Savants Etrangers, St. Petersburgh, 1859. It is in German, and fills nearly 200 quarto pages. Its author is a pupil of Movers, the great explorer of Phænician antiquities, and in many points resembles his lamented master. He published in 1856 a work of remarkable originality and learning on the "Sabians and Sabianism." Since then he has been much engaged in studying the productions which form the subject of this memoir. They are a series of Arabic texts, not yet published, which purport to be translations, made about 900 A.D., from originals composed in a language called "Nabathæan." They were described in part by Quatremère in his Mémoire sur les Nabatéens, Journal Asiatique, t. xv, 1835; but no one before Chwolson has given them a thorough study. He proposes to edit them, and states that they will make four quarto volumes of 600 pages each. His object in this memoir —of which the leading points were given by Prof. Hadley—is to furnish a general account of the books, their contents and character, to discuss their authorship, with the times and places of their origin, and to indicate his reasons for referring them in part to a very high antiquity: for he regards the most important one as older by seven centuries than Nebuchadnezzar. He begins by showing that there is no impossibility in supposing that the Chaldwans should have reached an advanced point in literature and science at such an early period, so long before the beginning of Greek culture. He then enumerates the Arabic texts, and speaks of Ibn Wahshiyyah, the professed translator. He was a native of southern Chaldea, and therefore a Nabathean; for this term, as used by the Arabs, referred in a stricter sense to the Chaldæans, while in a wider sense it included the Aramæans and Canaanites, and in fact all Semitic speaking races, except perhaps the Arabs. The mass of his countrymen were still heathen, and spoke, though in a corrupt form, the old Babylonian language.

Ibn-Wahshiyyah was a man of much travel, and much knowledge of physical science, which procured for him in later times the reputation of a conjuror. Though a Mohammedan, he hated the Arabs, and resented their contempt for his countrymen. It was to overcome this contempt that he undertook to render into Arabic a number of works from the surviving remains of Nabathæan (or aucient Babylonian) literature. The originals he procured with difficulty, their heathen custodians being afraid to trust them in Moslem hands. The works placed at his disposal included hooks on religion natural history, mediciue, astrology, and perhaps astronomy and history: of these he translated only a part, and of his translations only a part have come down to us. Chwolson finds reason to regard him as a competent and faithful translator. Among his extant versions, the longest, and in all respects the most important, is that which the Arabs call the "Book of Nabathean Agriculture." is almost encyclopædical in extent and variety, treating of all matters connected with the cultivation and productions of the soil, and touching incidentally on many things, historical, philosophical, social, and religious, which have little relation to Its professed author is Qût'âmî, who describes himself as a Chaldæan, resident in Bahylon, but owning large estates in the country. He is a man of philosophic culture, and of true scientific spirit, a liberal inquirer, and opposed at heart to the prevailing polytheism of his countrymen. He makes quotations, almost without number, from a host of preceding authors. Some ten or twelve of these are specially described by Chwolson, with loose estimates of the intervals of time between them, the earliest, Dewânâi, being placed more than 1000 years before Qût'âmî. The most prominent are Yanbûshâd, a sage and saint, of monotheistic tendencies, who lived perhaps 400 years before Qût'âmî, and Dhagrît', who may have lived 200 years earlier. Among the rest, we find the names of Adami, Ishît'a, Anûhâ, Ibrahîm, which remind us of the patriarchs Adam, Seth, Noah, Abraham, though Chwolson regards them as wholly distinct. The last two are spoken of as Canaanites, and Qût'amî repeatedly alludes to a Canaanitish dynasty as having long before conquered Babylonia under a chief named Nemrôda (apparently the Nimrod of Genesis), and as being still dominant in that country. This dynasty Chwolson identifies with the so-called Arabic kings of Berosus: their rule in Babylonia, which commenced about the middle of the 16th century, he conceives to have been established by some of the Hyksos then driven out of Egypt; and as their line ended soon after the beginning of the 13th century, he concludes that Qut'ami must have written before 1300 B.C. A number of objections to this prodigious antiquity (part of them already suggested by Ewald) are considered and answered, the most serious being those arising from the way in which the Greeks (or Ionians) are often referred to by Qût'âmî and his predecessors.

Beside the Book of Nabathean Agriculture, we find in the Arabic versions of Ihn-Wahshiyyah—1. A book on Poisons, which is mainly the work of Yārbūqā, a writer older even than Qūt'āmî—2. A book of Astrology, or horoscopic signs, by a writer named Tenkelūshā, who seems to have lived not very long before the final destruction of Babylon in the second century after Christ—3. Some fragments of

another work entitled "Mysteries of the Sun and Moon."

Prof. Hadley confined himself, for the most part, to representing the statements and arguments of the memoir under review, though not without indicating various difficulties and improbabilities which appear to beset them. In conclusion, he gave the resume in which Chwolson sketches, with lofty eloquence and glowing enthusiasm, the results to be gained for the history of human culture from these newly recognized remains of ancient Babylonian literature.

 On the Late Dealings between China and the Western Powers, by Dr. S. Wells Williams, of Canton.

Dr. Williams, who, as interpreter to the American embassies, had borne a share personally in all the recent negotiations with China, gave the Society a sketch of the transactions between China and the English, French, Russians, and Americans, which had led to the formation of the treaties of Tien tsin, and likewise of the later proceedings of the English and French in the Pei-ho, which resulted in the disastrous repulse of the allied fleets from before the forts at the mouth of the river. Of the expedition of the American embassy from Peh-tang to Pekin immediately after, for the purpose of exchanging ratifications of the American treaty, as

also of the uegotiations at Pekin respecting an audience with the emperor, which resulted in failure, from the steady refusal of the emhassador to pay him the homage of kneeling. Dr. Williams gave a somewhat detailed account, partly oral, and partly from a report of the journey already published by him in the Journal of the North-China Branch of the Royal Asiatic Society (Shanghai, 1859). He explicitly denied the stories which had been extensively circulated—partly in anticipation of the facts -of the treatment of the emhassy with indignity or want of ceremonious attention on the part of the Chinese, and maintained that the latter had acted throughout in good faith, and with candor and liberality; that they were sincerely desirous that the ratification and the presentation to the emperor should take place, and had withdrawn vastly more than ever before of their assumption of superiority and claim to homage, but were unable to prevail upon themselves to give up the point of kneeling. He saw no reason to doubt that preparation had been made at Pekin for the reception of all the emhassies, and that they were to have been conducted thither from Peh-tang. The different course taken by the English and Americans in this husiness had finally convinced the Chinese of what they had never before fully helieved, namely the entire independence of the two governments.

Dr. Williams farther favored the Society with a hrief exposition of the present condition of China, and his views as to the probable result of the pending troubles, internal and external, of the empire; speaking upon the latter point, however, only diffidently and without certainty. He described the rebellion as rather a devastating foray and military occupation of certain provinces than a division of the empire: the rebels organized nothing, and, as soon as they quitted a province, it reverted to its ancient condition under imperial authority. Of the mongrel Christianity professed by them he spoke doubtfully, but thought that their iconoclasm and independence of traditional authority might be agencies for good among the Chinese people.

11. On Müller's History of Vedic Literature, by Prof. W. D. Whitney, of Yale College.

This paper was an analysis and criticism of Prof. Max Müller's late volume, entitled "A History of Ancient Sanskrit Literature, so far as it illustrates the Primitive Religion of the Brahmans" (London, 1859). 'The writer began with a sketch of Prof. Müller's literary life and labors, and an exposition of his superior claims to the succession of Wilson's chair at Oxford, for which he is now competing. He then proceeded to set forth the general character and objects of the work, and to comment upon some of its statements and deductions. He presented its four-fold division of the Vedic period-into the sub-periods of the Satras, of the Brahmanas, of the collection of the hymns, and of their composition-rehearsing the grounds upon which this was founded: hut he was not disposed to accept its chronological determination of the time of the periods—by which the earliest was made to include from 1200-1000 B. C .- as of any authority or positive value. In connection hercwith, he spoke of the extreme difficulty attending the settlement of dates in Hindu history, and of the successive overthrows experienced by conclusions once thought to tory, and of the successive overthrows experienced by concusions once mought to be firmly established: the work in hand affording such an instance, in the disproof of the currently accepted date of Buddha's death, 543 B. C., and of the reliability of Buddhist chronology prior to 250 B. C. The claim of Müller that the Vedic literature was produced without and prior to all knowledge of the art of writing was next discussed: Prof. Whitney gave the reasons which led him to question this conclusion, and to believe rather that the art was disowned and ignored in the literature which must have been constructed partly by its aid, and exoterically in the Brahman schools, in order to maintain the Brahman monopoly of the sacred knowledge and of its propagation by tradition and oral instruction. He farther expressed his dissent from Muller's opinion that traces of a primitive monotheism are discoverable in the Vedas, and finally criticised certain views respecting the early history and migrations of nations, hrought forward in the introductory portions of the work, as having a form and significance which were rhetorical rather than scientific.

No farther communications being offered, the Directors announced that the next meeting would be held in Boston, on Wednesday the 22nd of May, 1861, and that they had appointed Dr. Beck, Mr. Abbot, and Prof. Whitney a Committee of Arrangements for it; and the Society adjourned.

PROCEEDINGS.

Boston and Cambridge, May 22nd, 1861.

Pursuant to adjournment, the American Oriental Society held its Annual Meeting for 1861 in Boston and Cambridge, on Wednesday, May 22nd. The Society assembled in the rooms of the American Academy of Arts and Sciences, and was called to order soon after 10 o'clock A. M., by the President, Dr. Robinson of New York.

After the reading of the minutes of the last meeting, reports from the officers were called for. The Treasurer first gave a summary statement of the income and outlay of the past year, and of the present condition

of the Treasury, as follows:

RECEIPTS.

Balance in the 'Members' fees:	ann. as	sessm	ts fo	r 18	60-6			4.00		•		\$520.58
	do. do.	do. do.			81-6:	s yea	116, -		.00	KHE	.00	
	uo.	uo,	10	1 10	01-0	۷, -	•		.00	016	.00	
Sale of Journal		-	•	-	•	•	-		•	68	3.39	
Donations from American merchants in China,									400.00			
Total re-	ceipts o	f the	year,	•	•	•	•	•		-	*	1038.39
											\$	1558.97
EXPENDITURES.												
Paper, printing, and engraving for Journal, Vol. VI (balance),										- ;	8429.15	
do.		do.		de).	Vol.	VII	(in pa	rt),	•	-	473.43
Other printing,		-	-	-	-	•	•	-	•	-	-	16.59
Binding books,		-	•	•	•.	•	. •	-	-	-	-	41.18
Other expenses	of Lib	rar y , o	f cor	Tesp	onde	nce, e	etc.,	-	•	•	•	41.40
Total ex	penditu	res of	the '	year.		-		-	-	-	8	1001.75
Balance in the						•	•	•	•	-	-	557.22
											-	1558.97

The Treasurer's accounts were referred to an Auditing Committee composed of Messrs. Charles Folsom of Cambridge and Samuel F. Haven of Worcester, and, having been by them duly examined and audited, were

accepted.

The Librarian laid before the Society the list of Additions to the Library and Cabinet since the last annual meeting (which list is annexed to this report of Proceedings). He read the names of the several donors, and pointed out the gifts of highest interest and value. Attention was especially called to a donation from Hon. Charles W. Bradley, lately U. S. Consul at Ningpo, by far the most valuable which the Society has ever received, comprising a collection of more than seven hundred volumes of

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works relating to every part of the Orient, but especially to China and Egypt, and adding probably not less than half to the previous value of the Library; including also a series of Chinese coins, of four hundred and thirty different varieties, and many other objects of curious interest for the Society's Cahinet. The condition upon which Mr. Bradley's gifts are now made was stated: viz., that the Library remains in its present place of deposit in New Haven; should it at any time be removed to another locality, the books are to be transferred to the Library of Yale College. A special vote of thanks to Mr. Bradley for his unprecedented liberality to the Society was proposed and passed unanimously.

The Committee of Publication reported that the continuation of the Society's Journal, forming the first half of Vol. VII, was almost complete, and would be distributed in a few days to the members for the past year.

The Corresponding Secretary gave information that the following gentlemen had, since the previous meeting, by acceptance of election, become Corporate Memhers of the Society:

Mr. William F. Allen, West Newton, Mass. Mr. Brinton Coxe, Philadelphia.

Prof. Timothy Dwight, New Haven.

Mr. S. Hastings Grant, New York. Rev. Charles R. Hale, Philadelphia. Rev. Edwin Harwood, New Haven.

Rev. William Hutchison, New Haven. Rev. Thomas S. Potwin, Franklin, N. Y.

Mr. Joseph S. Ropes, Boston.

Mr. J. Hammond Trumbull, Hartford, Conn.

Mr. George F. Vose, Fitchburg, Mass. Mr. James M. Whiton, New Haven.

The Directors offered to the meeting the names of several gentlemen with the recommendation that they be elected Corporate Members of the Society; those proposed were thereupon balloted for, and elected without dissent. Among them were the following American merchants, resident in China, who had recently donated each one hundred dollars to the Society, through Hon. C. W. Bradley, and who were therefore chosen as Life Members:

Mr. John Heard, Hongkoug. Mr. T. C. Smith, do.

Mr. Robert M. Olyphant, Shanghai.

Mr. Thomas Walsh,

The Directors farther announced that they had reappointed the Committee of Publication of last year. Also that, while thanking Hon. C. W. Bradley, of Ningpo, for his zealous and efficient efforts to promote the interests of the Society abroad, especially in the far East, they had authorized and requested him to continue his exertions in its behalf as he should find opportunity.

The correspondence of the past six months was presented, and read in

part. Among the letters were the following:

1. From Capt. H. G. Raverty, dated London, Oct. 12th, 1860. Raverty calls the Society's attention to the series of works on the Afghan, Pukhto, or Pushto language, which he has lately published by subscription, and solicits the Society's subscription. The series consists of a Dictionary (four guineas), a Grammar (one guinea), and a Chrestomathy (two guineas), all in quarto. The Corresponding Secretary said he had been compelled to reply that the Society did not authorize its Librarian to make purchases for its Library; but that he should take pleasure in laying Capt. Raverty's letter before its next meeting, and recommending the works in question to individuals as a most valuable contribution to oriental philology and ethnology.

2. From Mr. Brian H. Hodgson, dated Dursley, Oct. 18th, 1860.

- ".... I have sent yon a copy of the third and concluding part of my last papers on the Turanian languages of the Himalaya..... Since these notices were penned, I have read Muir's Sanskrit Texts, and it seems to me not improbable that my Hāyūs, whose name might as well be written Haiyus, may be identical with the people called Haivas at vol. ii, p. 59 of that work; and that the Haihayas of vol. i, p. 181 of the same work may perchance be still the same. Also, that my Bāhings may be not impossibly the Bāhikas of Muir, vol. ii, p. 481-2, though the language of the Bāhikas be there said to be Sanskrit. But the Brahminical writers, in their notices of the tribes and peoples around them, show extreme ignorance of the forms and of the tongues of those tribes and peoples, since even the Indochinese are by those writers set down as "degraded Kshatriyas," that is, Aryans in race and speech! I mention these things just as they occur to me on the spur of the moment."
- 3. From Mr. Fitz-Edward Hall, dated Camp Nursinghpoor, Feb. 21st, and Saugor, March 4th, 1861.
- ".... Lately, when at Eran, I made ont the oldest Hindu date hitherto deciphered. It corresponds to A. D. 111..... Bápú Deva's version of the Súrya-Siddhánta I found published, a fasciculus of the Bibliotheca Indica, when I reached Calcutta. With the same help as before [that of Archdeacon Pratt, of Calcutta], he is now going to give a version of the Siddhánta-S'iromani.... Here at Saugor, I have come upon what seems to be a very correct copy of the Kathá-sarit-ságara in its entirety. I am having it copied for Brockhaus; and so we may see this huge collection of venerable fibs in print some day or other.... I have corrected for the press, this day, the first sheet of my edition of the Das'a-rúpa and its commentary. My translation of it will be printed when I shall have done with the Sanskrit. This I finlshed before I left India in 1859...."

Dr. Taylor of Andover, Rev. Mr. Hale of Boston, and Mr. Salisbury of Worcester were appointed a committee to nominate a board of officers for election for the ensuing year. They proposed the subjoined ticket, being the same with that chosen last year, which was thereupon balloted for, and declared duly elected:

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President—Prof. Edward Robinson, D. D., LL. D., of New York.
Vice-Presidents ( Prof. Charles Beck, Ph. D., Rev. William Jenks, D. D.,
                                                            " Cambridge.
                                                                Boston.
                  ( Pres. T. D. Woolsey, D.D., LL.D., " New Haven.
Corresponding Secretary-Prof. W. D. WHITNEY,
                                                            " New Haven.
                                                            " New Haven.
Secr. of Classical Section-Prof. James Hadley,
                                                            " Cambridge. .
Recording Secretary—Mr. Ezra Abbot,
Treasurer-Mr. D. C. GILMAN,
                                                            " New Haven.
                                                             " New Haven.
Librarian—Prof. W. D. WHITNEY,
            Rev. Rufus Anderson, D. D.,
                                                             " Boston.
Directors

Mr. J. G. Cogswell, LL. D.,
Pres. C. C. Felton, LL. D.,
Prof. W. H. Green, D. D.,
Prof. J. J. Owen, D. D.,
Dr. Charles Pickering,
Prof. E. E. Salisbury,
                                                            " New York.
                                                            " Cambridge.
                                                            " Princeton.
                                                            " New York.
                                                            " Boston.
                                                            " New Haven.
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The President called the attention of the Society to the decease, since its last meeting, of one of its oldest, most active, and most highly respected members, Prof. J. W. Gibbs, LL. D., of New Haven. Dr. Worcester and Prof. Beck of Cambridge, and Prof. Proudfit of New Brunswick were appointed a Committee to prepare appropriate resolutions, and, at a later period of the meeting, they offered the following:

Resolved. That in the death of Professor Josiah Willard Gibbs, late of Yale College, this Society lament the loss of an eminent linguistic scholar, distinguished for patient and thorough research, for his ardent pursuit and love of truth, for his various attainments, for his amiable qualities of mind, and for his Christian virtues, all which rendered him an ornament to this association.

Resolved, That a copy of this resolution be transmitted to the family of our de-

ceased associate.

These resolutions, after remarks from many of the gentlemen present,

Prof. Francis, of Cambridge, then referred to the death within the past year of another member of the Society, one of its founders, and for a long time one of its officers, Rev. Theodore Parker of Boston, and offered the following resolutions, which were voted on by the meeting, and adopted:

Resolved, That the members of the Oriental Society received with deep regret the intelligence of the death, in a foreign land, of their distinguished associate, Rev. Theodore Parker, and that they desire to do honor to his memory by the expression of their respect for his rich and diversified scholarship, and of their grateful remembrance of the many virtues of his character.

Resolved, That a copy of the above resolution be communicated to his widow,

Mrs. Parker.

Communications being now called for, the following were presented:

1. A few Critical Remarks on the Urim and Thummim, by Rev. Edward C. Jones, of Philadelphia; read by Mr. Abbot, of Cambridge.

2. An Account of the Country of Siak, on the Northeastern Coast of Sumatra, in a Letter to Hon. C. W. Bradley, dated Singapore, May 20th, 1857, by Maharaja Adam Wilson; read by Prof. Whitney, of New Haven.

This was a brief account of the extent, surface, soil, productions, trade, and population of that part of Sumatra lying next opposite to Singapore, over a portion of which the writer had become ruler, by gift from the Sultan of Siak, in return for his assistance against rebel chiefs.

3. An Inquiry into the Origin of the Semitic Feminine and Plural Endings, by Prof. W. Henry Green, D.D., of Princeton, N. J.: read by Prof. Salisbury, of New Haven.

Prof. Green pointed out succinctly the peculiarities of Semitic usage in the treatment of gender and number; he traced the original forms of the terminations employed to distinguish the one and the other, and referred them to the pronominal elements from which he regarded them as derived.

Here the Society took a recess, to come together again at the residence of Prof. Beck, in Cambridge.

Upon reassembling, at 4 o'clock P.M., the Society continued to listen to communications.

4. On the Explorations of the Schlagintweits in Northern India, by Mr, Daniel C. Gilman, of New Haven.

The first Part of the creation by the brothers Schlagintweit of the results of their Indian quarto volume of text, and an accompanying mammoth foli lithographic pictures and maps—was exhibited to the members present hy Mr. Gilman, who described summarily the course of the expedition, the character of the collections it had hrought back, and the mode in which it was proposed to give them to the world.

5. On the Ansairîyah of Northern Syria, being a Review of the late work of Rev. Samuel Lyde entitled "the Asian Mystery," by Rev. Charles H. Brigham, of Taunton, Mass.

After some general introductory remarks on the unfitness of the title applied to the work, and the special qualifications of Mr. Lyde for preparing such a work, as also a brief notice of what other travellers had reported respecting the Ansairiyah, Mr. Brigham proceeded to state the principal facts thus far known respecting this people. Their home is the monntain region in the northwest portion of Syria, though they are found widely scattered, from Tarsus in the west to Persia on the east and Mount Hermon on the south. Their estimated number is 200,000, and the east and mount hermon on the south. Their estimated number is 200,000, and is steadily decreasing. They are poor, ignorant, rude, and turbulent, hostile to strangers and quarrelsome with each other. Their traffic with their neighbors is very scanty, and chiefly in the tohacco sold at Ladakia. They live mostly in small villages, woiding the large towns and the plains. They are divided into two great sects: the Shamsiyah or Northerners, and the Kamriyah or Southerners, so named from the superior reverence which they pay respectively to the sun and the moon. The Shamsiyal.

'ndants of the original Canaanites, while the Kamriyah are

from Mesopotamia or Persia, who came in the 8th or 9th nore numerous, the latter more proud and The chief difference between them is that tobaceo is forbidden to the one and allowed to the other.

The principal topic of the review, however, was the religious system of the Ansairiyah, which was analyzed and discussed at length—the unity and nature of the Supreme Being; the Trinity of the Ma'na, the Ism, and the Bab, with their several names and offices; the seven historical manifestations of this Trinity, from Abel to Ali, from Adam to Mohammed, and from Gabriel to Salman the Persian; the Hierarchies, heavenly and earthly, with their names, order, rank, and numbers; the relation of men to these divine beings; the character and use of prayer; and the relation of the religion to the customs and life of the people. The vagueness, confusion, and meagreness of the religion as explained in its catechism and its sacred hooks were pointed out, while its indeptedness to the Gospel was chosen in the hooks were pointed out, while its indebtedness to the Gospel was shown in the practical precepts given for the heliever.

6. Remarks on Rev. R. Caldwell's Comparative Dravidian Grammar, by Prof. William D. Whitney, of New Haven.

Prof. Whitney spoke of the great interest of this work as a comparative presentation of the South-Indian group of languages, hnt wished to treat especially of a single matter brought forward in it, namely, the author's claim that the languages in question form a hranch of the Mongolian or Scythian family, specially allied to its Finnish hranch. A somewhat similar claim had heen some years since put forth by Müller, hut upon grounds of which the adequacy had not been generally accepted. The point was one of the highest consequence, in its bearings upon ancient cth-nology. It was also one of peculiar difficulty, considering the character of the Mongolian languages, the laxity of their compositions, the great variety and diversity, even as hetween nearly related dialects, of their formative elements, and the consequent facility offered for establishing coincidences between them and other languages by a loose method of etymologizing: taking the whole wide range of tongues reckoned as Mongolian, it would not he hard to discover here and there resemblances of roots and forms with those of any other given language. The degree of confidence to he placed in Mr. Caldwell's general conclusions, then, must depend upon the qualities which he exhibited as a general linguist—upon his linguistic acquirements and his etymological method: and with these the speaker professed himself not altogether satisfied. He referred by way of illustration to the author's comparison of Dravidian and Sanskrit roots, intended to prove an ultimate relationship between those two families also: it was of no scientific value; the greater part of the Sanskrit employed in the comparison was not even genuine ancient Sanskrit, such as alone had any right to he so used. The speaker insisted, as an indispensable qualification for comparing and determining the relations of two languages or groups of languages, on the possession of an equally profound and familiar knowledge of hoth, and thought that Mr. Caldwell, whatever his desert in the special department of Dravidian philology, had no right to an authoritative opinion in a matter concerning the Scythian family also; he could not regard the remoter relationship of the South-Indian group of languages as anything but an open question still.

7. On the Date of Composition of the Amphitruo of Plautus, by Prof. George M. Lane, of Cambridge.

The various conclusions or conjectures which had been offered by different writers respecting the date of this play—derived, in lack of other evidence, from hints and allusions in the play itself—were first subjected to criticism, and in part disproved, in part set aside as too vague and unsatisfactory. Evidences more significant, and more decisive of the question of date, than any which had been hitherto pointed out, were seen hy Prof. Lane in the references to Bacchants and Bacchanalian rites which the play contained. The prominent importance of these as subjects of common talk and public action at one period in the life of Plautus was explained, and the various allusions to them presented by his different works were noted. The conclusion was arrived at, as one possessing a fair measure of plausibility, that the Amphitruo was written during the last two years of the poet's life, or 186-184 B. C.

8. Ought the Greek of the Early Christian Writers to form Part of the Course of School and College Study? By Prof. John Proudfit, D. D., of New Brunswick, N. J.

The object of Prof. Proudfit's paper was to set forth the gronnds for answering this question in the affirmative. He maintained the high value of the Christian Greek literature, for the purity of its language, the elevation of its style, the nobility of its sentiments, the genius of its authors, and its important historical relations to the ancient heathcnism and the modern Christianity—which qualities rendered it eminently worthy of heing allowed a part in the education of the young at the present day. He explained the circumstances in the midst of which it grew up, and which determined its form and character, and extolled the abilities, virtues, and actions of the men who were its chief exponents, particularly Basil and Chrysostom. He contended that it was a defect in a classical education to leave quite out of sight a literary period of such prominent interest. He pointed out that many of the difficulties which had hitherto lain in the way of a study of the works of the period, in their rarity and costliness, their unwieldy form and difficult typography, and the uncritical condition of their texts, had been of late in great part removed; and he expressed the hope that better justice would ere long be done to their claims upon the attention of modern scholars.

9. On the Ancient and Modern Dialects of the Persian Language, by Prof. Whitney.

This was a succinct view of the five principal forms of Iranian speech, namely the dialcct of the Achæmenidan Cuneiform Inscriptions, that of the Avesta, the Hnzvåresh, the Pårsi, and the Modern Persian, giving the period and locality of each, as determined by the latest researches, and sketching their phonetic and etymological character.

No other communications were offered. The Directors accordingly gave notice that they had appointed the next meeting of the Society to be held in New York, on Wednesday, October 16th, 1861, and had designated Prof. J. J. Owen and Mr. A. I. Cotheal, of New York, and Prof. W. H. Green of Princeton, to act as a Committee of Arrangements for that meeting, and the Society adjourned.

ADDITIONS TO THE LIBRARY AND CABINET.

MAY, 1860-MAY, 1861.

From the American Antiquarian Society.

Transactions and Collections of the American Antiquarian Society. Vol. iv. [Boston:1 1860. 8vo.

Proceedings of the American Antiquarian Society.... Boston, April 25, 1860.... Worcester, Oct. 22, 1860....and Boston, April 24, 1861. Boston: 1860-61. 8vo.

From the American Geographical and Statistical Society.

Bulletin of the American Geographical and Statistical Society. Vol. i, Nos. 1, 2, 3. New York: 1852-54. 8vo.

Journal of the American Geographical and Statistical Society. Vol. i, 1859. Vol. ii, No. 1, 1860. New York. 8vo.

Annual Report of the Council and Officers of the same, with Appendix. Dec. 1857. New York. 8vo.

Charter, By-Laws, and List of Members of the same. March, 1860. New York. 8vo. Sundry pamphlets published by the same, viz: Access to an Open Polar Sea... by E. K. Kane.—On Northern New York, by W. C. H. Waddell.—The New York Harbor... by D. E. Wheeler.—Report and Memorial on Syrian Exploration.—Report... on Sub-oceanic Geography.—Address on the Northwest... by I. I. Stevens.—The Geography and Resources of Arizona and Sonora... by S. Mowry.—A Statistical View of American Agriculture... by J. Jay. New York and Washington: 1853-60. 8vo.

From the American Philosophical Society.

Transactions of the American Philosophical Society, held at Philadelphia, for promoting Useful Knowledge. Vol. xi, New Series, Parts i, ii, iii. Philadelphia: 1857-80 4to

Proceedings of the American Philosophical Society. Vols. i (incomplete), ii, iv-vii. Philadelphia: 1838-60. 8vo.

Laws and Regulations of the same....Dec. 16, 1859. Together with the Charter of the Society, and a List of its Members. Philadelphia: 1860. 8vo.

From the Asiatic Society of Bengal.

Journal of the Asiatic Society of Bengal. 1855, No. 7. 1856, Nos. 1, 2, 4, 6, 7. 1857, Nos. 1, 2, 4, 5, 6. 1858, Nos. 2, 3, 4. 1859, Nos. 2, 3, 4. Calcutta. 8vo. Bibliotheca Indica. Nos. 150-155. The Taittiriya Bráhmana of the Black Yajur Veda, with the Commentary of Sáyanáchárya, edited by Rájendralál Mittra, etc. Fasciculi iv-ix. Calcutta: 1859. 8vo.

From the Asiatic Society of Paris.

Journal Asiatique....5me Série. Tomes xiii-xvi. Paris: 1859-60. 8vo.

From the Royal Academy of Sciences at Berlin.

Philologische und Historische Abhandlungen der Königlichen Akademie der Wissenschaften zu Berlin, für die Jahre 1843-59. 17 vols. 4to. Berlin.

From the Board of Foreign Missions of the Presbyterian Church.

Explanatory Notes and Questions on Matthew. 1853. 16mo size. Chinese.

From Professors Boehtlingk and Roth.

Sanskrit-Worterbuch, herausgegeben von der Kaiserlichen Akademie der Wissenschaften. Bearbeitet von Otto Boehtlingk and Rudolph Roth. Lieferungen 17 und 18. St. Petersburg: 1860. 4to.

From Sir John Bowring, of Hongkong.

A Visit to the Philippine Islands. By Sir John Bowring, etc. London: 1859. 8vo.

From Hon, C. W. Bradley, of Ningpo.

Enquiries tonching the Diversity of Languages and Religions through the Chiefe Parts of the World. Written by Edward Brerewood, etc. London: 1614. 8vo. Bilder und Schriften der Vorzeit dargestellt von Ulrich Friedrich Kopp, etc. Mannheim: 1819-21. 2 vols. 8vo.

Essai sur la Composition d'un Nonvel Alphabet, pour servir à représenter les Sons de la Voix Humaine, et leurs Diverses Modifications.... Par S. Faure. Paris:

1831. 16mo.

Panorama des Langues. Clef de l'Etymologie, par l'Abbé Auguste Latouche, etc. Paris: 1836. roy. 8vo.

Chronicon Orientale, Latinitate donatum ab Abrahamo Ecchelensi, etc. Paris: 1685. fol.

Simonis Ockleii Introductio ad Linguas Orientales...accedit Index Auctorum.... Cambridge: 1706. 8vo.

An Essay on the Usefullness of Oriental Learning. By the late Mr. Richard Parker.

London: 1744. 8vo. (bound with the preceding.)

Historia Orientalis: quae, ex Variis Orientalium Monumentis collecta, agit de.... Authore Joh, Henrico Hottingero, Tigurino, Tiguri: 1651. 4to.

A Description of the East and some other Countries. By Richard Pocoke. London:

1743-5. 2 vols. in 3. fol.

A Dissertation on the Languages, Literature and Manners of Eastern Nations. Originally prefixed to a Dictionary, Persian, Arabic and English To which is added, Part II, containing Additional Observations. Together with further Remarks on a New Analysis of Ancient Mythology: in answer to an Apology, addressed to the Author, by Jacob Bryant, Esq. By John Richardson, etc. Oxford: 1778. 12mo.

A Dictionary of the Religious Ceremonies of the Eastern Nations; with Historical and Critical Observations; some Account of their Learned Men; and Situations of the most Remarkable Places in Asia To which is added, a Medical Vocab-

ulary. Calcutta: 1787. 4to.

Oriental Customs: or an Illustration of the Sacred Scriptures, by an Explanatory Application of the Customs and Manners of the Eastern Nations, and especially the Jews, therein alluded to, collected from the most Celebrated Travellers and the

most Eminent Critics. By Rev. Samuel Burder, etc. London: 1816. 2 vols. 8vo. Sabean Researches, in a Series of Essays, addressed to Distinguished Antiquaries on the Engraved Hieroglyphics of Chaldea, Egypt, and Canaan. By John Landseer, etc. London: 1823. 4to.

Mémoires Relatifs à l'Asie, contenant des Recherches Historiques, Géographiques, et Philologiques sur les Peuples de l'Orient; par M. J. Klaproth, etc. Paris:

1824. 8vo.
Oriental Fragments, by the Author of the Hindu Pantheon. London: 1834. 12mo.

The Works of Sir William Jones. London: 1799. 6 vols. 4to.

Supplemental Volumes to the Works of Sir William Jones, containing the whole of the Asiatick Researches hitherto published, excepting those Papers already inserted in his Works. London: 1801. 2 vols. 4to.

Memoirs of the Life, Writings and Correspondence of Sir William Jones. By Lord

Teignmouth. London: 1806. 4to.

Two Essays on the Geography of Ancient Asia; intended partly to illustrate the Campaigns of Alexander, and the Anabasis of Xenophon. By Rev. John Williams, etc. London: 1829. 8vo.

The Geographical System of Herodotns, examined: and explained, by a Comparison with those of other Ancient Authors, and with Modern Geography. By James Rennell. London: 1800. 4to.

Lives of the Ancient Philosophers; translated from the French of Fénélon; with Notes, and a Life of the Author. By the Rev. John Cormack. New York:

Eastern Life, Present and Past. By Harriet Martineau. London: 1850. 16mo.

Early Oriental History: comprising the Histories of Egypt, Assyria, Persia, Lydia, Phrygia and Phœnicia. Edited by John Eadie, D.D., etc. London: 1852.

16mo. (From the Encyclopedia Metropolitana.)

Musei Borgiani Velitris Codices Manuscripti Avenses Peguani Siamici Malabarici Indostani. Animadversionihus... illnstrati. Accedunt Monumenta Inedita, et Cosmogonia Indico-Tibetana. Auctore P. Paulino a S. Bartholomæo, etc. Romæ: 1793. 4to.

Examen Historico-criticum Codicum Indicorum Bibliothecæ Sacræ Congregationis de Propaganda Fide. Auctore P. Paulino a S. Bartholomæo, etc. Romæ: 1792.

4to. (bound with the preceding.)

Bibliotheca Marsdeniana, Philologica et Orientalis. A Catalogue of Books and Manuscripts collected with a View to the General Comparison of Languages, and to the Study of Oriental Literature. By William Marsden, etc. London: 1827. 4to.

Catalogue of several hundred Manuscript Works in Various Oriental Languages,

collected by Sir William Ouseley, etc. London: 1831. 4to.

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The New Testament in Coptic and Arabic (the two versions in parallel columns on each page). Part I. The Gospels. 1847. Part II. Acts—Revelation. 1852. London. 2 vols. fol.

Travels to discover the Sources of the Nile, in the Years 1768, 1769, 1770, 1771, 1772, and 1773. By James Bruce, etc. Edinburgh: 1805. 7 vols. 16mo. and Vol. 8, plates and maps. 4to.

Travels in Nubia: by the late John Lewis Burckhardt. London: 1819. 4to.

Inscriptiones Nubienses. Commentatio lecta in Conventu Academiæ Archæologiæ
A. D. vi Kal. Aug. MDCCCXX. a B. G. Niebuhrio, etc. Romæ: 1820. 4to.

Nubia and Abyssinia: comprehending their Civil History, Antiquities....etc. By the Right Rev. M. Russell, etc. Edinburgh. 24mo.

Histoire du Christianisme d'Ethiopie, et d'Arménie; par Monsieur Maturin Veyssière Lacrose, etc. La Haie: 1739. 18mo.

The Highlands of Ethiopia. By Maj. W. Cornwallis Harris, etc. London: 1844. 3 vols. 12mo.

A Voyage to Abyssinia, by Father Jerome Lobo, etc., containing the History of that Country, continued down to the Beginning of the Eighteenth Century: with Fifteen Dissertations on Various Subjects, relative to the Antiquities, Government...of Abyssinia. By M. le Grand. Translated from the French by Samuel Johnson, LLD. To which are added various other tracts, by the same author.... London: 1789. 8vo.

A Voyage to Abyssinia, and Travels into the Interior of that Country, executed under the orders of the British Government, in the years 1809 and 1810: in which are included, an Account of the Portuguese Settlements on the East Coast of Africa, a Concise Narrative of Late Events in Arabia Felix; and some Particulars respecting the Aboriginal African Tribes, extending from Mosambique to the Borders of Egypt; together with Vocabularies of their respective Languages....By Henry Salt, etc. London: 1814. 4to.

Journals of the Rev. Messrs. Isenberg and Krapf, etc., detailing their Proceedings in the Kingdom of Shoa, and Journeys in other Parts of Abyssinia, in the Years 1839, 1840, 1841, and 1842. To which is prefixed, a Geographical Memoir of Abyssinia and South-eastern Africa, by James McQueen, Esq....London: 1843.

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Journal of Three Years' Residence in Myssicia. By Rev. Samuel Gobat, etc. Preceded by an Introduction in Arthur and Ill. Section. on Abyssinia, translated from the French by Rev. Sereno D. Clark. Accompanied with a Biographical Sketch of Bishop Gobat, by Robert Baird, D.D. New York: 1850. 12mo.

Life in Abyssinia; being Notes collected during three Years' Residence and Travels

in that Country. By Mansfield Parkyns. New York: 1854. 2 vols. 12mo.
Dictionary of the Amharic Language. In Two Parts. Amharic and English, and
English and Amharic. By the Rev. Charles William Isenberg, etc. London: 1841.

Grammar of the Amharic Language. By the Rev. Charles William Isenberg, etc. London: 1842. roy. 8vo.

Life with the Zulus of Natal, Sonth Africa, By G. H. Mason, etc. London: 1853.

Travels in Southern Africa, in the Years 1803, 1804, 1805, and 1806. By Henry Lichtenstein, etc. Translated from the Original German, by Anne Plumptre. London: 1812-15. 2 vols. 4to.

Missionary Travels and Researches in South Africa; including a Sketch of Sixteen

Years' Residence in the Interior of Africa, and a Journey from the Cape of Good Hope to Loanda on the West Coast, thence across the Continent. down the River Zambesi, to the Eastern Ocean. By David Livingstone, etc. New York: 1858.

Mission from Cape Coast Castle to Ashantee, with a Statistical Account of that Kingdom, and Geographical Notices of other Parts of the Interior of Africa. By

T. Edward Bowdich, etc. London: 1819. 4to.

Narrative of an Expedition to Explore the River Zaire, usually called the Congo, in South Africa, in 1816, under the direction of Captain J. K. Tuckey, etc. To which is added the Journal of Professor Smith: London 1818. 4to.

A New and Accurate Description of the Coast of Guinea, divided into the Gold, the Stone, and the Ivory Coasts.....Written originally in Dutch by William Bosman,

etc. London: 1705. 16mo.

The Journal of a Mission to the Interior of Africa, in the Year 1805. By Mungo Park. Together with other Documents, Official and Private, relating to the same Mission. To which is prefixed an Account of the Life of Mr. Park. London: 1815. 4to.

Historical Account of Discoveries and Travels in Africa, by the late John Leyden, M.D. Enlarged, and completed to the Present Time, with Illustrations of its Geography and Natural History, as well as of the Moral and Social Condition of its Inhabitants. By Hugh Murray, etc. Edinburgh: 1817. 2 vols. 8vo.

An Account of Timbuctoo and Housa, Territories in the Interior of Africa. by El

Hage Abd Salan Shabeeny; with Notes, Critical and Explanatory. To which is added, Letters Descriptive of Travels through West and South Barbary, and across the Mountains of Atlas; also Fragments.... By James Grey Jackson, etc. London: 1820. 8vo.

A Grammar and Vocabulary of the Yoruba Language, compiled by the Rev. Samuel Crowther, etc. Together with Introductory Remarks, by O. E. Vidal, etc. Lon-

don: 1852. 8vo. Narrative of Travels and Discoveries in Northern and Central Africa, in the Years 1822, 1823, and 1824, by Major Denham, F.R.S., Captain Clapperton, and the late

Doctor Oudney....Third Edition. London: 1828. 2 vols. 8vo.

An Expedition of Discovery into the Interior of Africa, through the hitherto Undescribed Countries of the Great Namaquas, Boschmans, and Hill Damaras....
conducted by Sir James Edward Alexander, etc. London: 1838. 2 vols. 12mo.

Naukeurige Beschrijvinge der Afrikaensche Gewesten van Egypten, Barbaryen,.... vertoont in de Benamingen, Grenspalen.....Met Lantkaerten....Door Dr. O. Dapper ... Amsterdam: 1668. 4to.

Naukeurige Beschrijvinge der Afrikaensche Eylander: als Madagaskar, of Sant Laurens....vertoont in de Benamingen, Gelegentheit, Steden....Door Dr. O. Dapper. Amsterdam: 1668. 4to. (bound with the preceding.)

Travels, or Observations, relating to several Parts of Barbary and the Levant. Illustrated with Copperplates. By Thomas Shaw, etc. Edinburgh: 1808. 2

An Account of the Empire of Morocco, and the Districts of Suse and Tafilelt; compiled from Miscellaneous Observations....To which is added an Account of Shipwrecks on the Western Coast of Africa, and an Interesting Account of Timbuctoo, the Great Emporium of Central Africa. By James Grey Jackson, etc. London: 1814. 4to.

Narrative of a Ten Years' Residence in Tripoli in Africa: from the Original Correspondence in the Possession of the Family of the late Richard Tully, Esq., the British Consul, comprising Authentic Memoirs and Anecdotes of the Reigning Bashaw, his Family, and other Persons of Distinction; also an Account of the Domestic Manners of the Moors, Arabs, and Turks. London: 1817. 4to.

Narrative of a Residence in Algiers; comprising a Geographical and Historical Account of the Regency; Biographical Sketches of the Dey and his Ministers; Anecdotes of the Late War; Observations on the Relations of the Barbary States with the Christian Powers; and the Necessity and Importance of their Complete Subjugation. By Signor Pananti. London: 1818. 4to.

A Narrative of Travels in Northern Africa, in the Years 1818, 19, and 20; accompanied by Geographical Notices of Soudan, and of the Course of the Niger

By Captain G. F. Lyon, etc. Londou: 1821. 4to.

Adventures in the Libyan Desert, and the Oasis of Jupiter Ammon. By Bayle St. John. New York: 1849. 12mo.

The Pillars of Hercules; or, a Narrative of Travels in Spain and Morocco in 1848. By David Urquhart, etc. New York: 1850. 2 vols. 24mo.

Algeria: the Topography and History, Political, Social, and Natural, of French Africa. By John Reynell Morell. London: 1854. 8vo.

Étude sur la Conquête de l'Afrique par les Arabes, et Recherches sur les Tribus Berbères qui ont occupé le Maghreb Central, Par Henri Fournell, [Première Partie.] Paris: 1857. 4to.

The Pilgrim's Progress, in Modern Greek, translated by S. C. Wilson. Malta:

1831. 12mo.

From Prof. Hermann Brockhaus, of Leipzig.

Analyse des 6ten Buches von Somadeva's Mährchensammlung, von Hermann Brockhaus [pp. 101-162 of Berichte der phil. hist. Cl. d. Kon. Sächs. Gesellschaft der Wissenschaften, 1860]. 8vo.

Die Lieder des Hafis..., herausgegeben von Hermann Brockhaus. iii, 1, 2. Leipzig: 1860. roy. 8vo.

From the China Branch of the Royal Asiatic Society.

Transactions of the China Branch of the Royal Asiatic Society. Parts i, ii, iii, v, vi. Hongkong: 1848-59. 8vo.

From the Commissioner of Patents.

Report of the Commissioner of Patents for the Year 1859. Agriculture. Washington: 1860. 8vo.

From Mr. George L. Ditson, of New York.

Adventures and Observations on the North Coast of Africa; or, the Cresent and the French Crusaders. By G. L. Ditson, etc. New York: 1860. 12mo.

From M. Garcin de Tassy, of Paris.

Description des Monuments de Dehli en 1852, d'après le Texte Hindoustani de Saiyid Ahmad Khan, par M. Garcin de Tassy, etc. [Extrait du Journal Asiatique.] Paris: 1861. 8vo.

From the German Oriental Society.

Zeitschrift der Deutschen Morgenländischen Gesellschaft. xiv. 3, 4; xv. 1. Leipzig: 1860 8vo.

Abhandlungen für die Kunde des Morgenlandes, herausgegeben von der Deutschen Morgenländischen Gesellschaft. Band ii. Leipzig. 8vo.

No. 1. Hermae Pastor. Aethiopice primum edidit et Aethiopica Latine vertit Antonius d'Abbadie. 1860.

No. 2. Die G\u00e4th\u00e1s des Zarathustra. Heransgegeben, \u00fcbersetzt und erl\u00e4utert von Dr. Martin Haug. Zweite Abtheilung. 1860.

From Dr. L. H. Gulick, of Ponape.

Notes on the Grammar of the Ponape Dialect. By L. H. Gulick, M.D. Honolulu: 1855. 12mo.

From Messrs. Hale, Morton, and Jones, of Philadelphia.

Report of the Committee appointed by the Philomathean Society of the University of Pennsylvania to translate the Inscription on the Rosetta Stone. [By Charles R. Hale, S. Huntington Joues, and Henry Morton.] Second Edition. Philadelphia: 1859. sm. 4to, lithographed, with illuminated borders and decorations, and numerous illustrations, printed in colors.

From Mr. Brian H. Hodgson, of Dursley, England.

Papers Relative to the Colonization, Commerce, Physical Geography, etc., etc., of the Himalaya Mountains and Nepal, by B. II. Hodgson, etc. Calcutta: 1857. 8vo. Essays on the aboriginal tribes of India, by B. H. Hodgson, extracted from various volumes of the Journal of the Asiatic Society of Bengal; viz. Aborigines of Southern India.—Aborigines of the South.—Aborigines of the Nilgiris.—Aborigines of the Eastern Gháts.-Aborigines of the Nilgiris, with Remarks on their Affinities.—On the Aborigines of the Eastern Frontier.—Aborigines of the North East Frontier.—On the Indo-Chinese Borderers.—On the Mongolian Affinities of the Caucasians.—Route from Káthmándú, the Capital of Népál, to Darjeling in Sikim, interspersed with Remarks on the People and Country.—Memorandum relative to the Seven Cosis of Népál.—On the Chépáng and Kúsúnda Tribes of Népál.—Sifán and Hórsók Vocabularies, with another Special Exposition in the Wide Range of Mongolian Affinities, and Remarks on the Lingual and Physical Characteristics of the Family.—Comparative Vocabulary of the Languages of the Broken Tribes of Népál.—Comparative Vocabulary of the several Languages (Dialects) of the Celebrated People called Kirántis, now occupying the Eastern. most Province of the Kingdom of Népál....—Váyu Vocabulary.—Váyu Grammar.—Báhing Vocabulary.—Báhing Grammar.—On the Váyu Tribe of the Central Himálaya.—On the Kiránti Tribe of the Central Himálaya. [With numerous manuscript corrections, additions, and remarks, by the Author.]

From Prof. C. A. Holmboe, of Christiania, Norway.

Traces de Buddhisme en Norvége avant l'Introduction du Christianisme, par M. C. A. Holmboe, etc. Paris: 1857. 8vo.

Four essays, by C. A. Holmboe, on philological and archeological subjects, viz: Om Præget paa Nogle i Norden fundne Guldmynter og Guldbructeater fra Oldtiden.— Asaland og Vanaland.—Forsvar for den Maade, hvorpaa de Gamle Oversættelser gjengive Ordet משפר.—Om Betydningen af Ordet Saraph i det Gamle Testamente. (Extracts from Videnskabs-Seiskabets Forhandlinger for 1858 and 1859.)

From the University of Kiel.

Chronik der Universität zu Kiel, 1854-58. Kiel: 1855-59. 4to. Schriften der Universität zn Kiel, aus dem Jahre 1859. Kiel: 1860. 4to.

From Dr. Adalbert Kuhn, of Berlin.

Zeitschrift für Vergleichende Sprachforschung, etc. ix. 5, 6; x. 1-3. Berlin: 1860-61. 8vo.

Beiträge zur Vergleichenden Sprachforschung, etc. ii. 3, 4. Berlin: 1860-61. 8vo.

From M. Léon de Rosny, of Paris.

Revue Orientale et Américaine, publiée....par Léon de Rosny. Tome Troisième. Paris: 1860. 8vo.

The same, No. 27, for Dec. 1860. Paris. 8vo.

Four articles, by L. Léon de Rosny, on oriental subjects, viz: Le Livre de la Récompense des Bienfaits Secrets, traduit sur le Texte Chinois.—Sur une Nouvelle Carte du Royaume de Siam, dressée sous la Direction de Mgr Pallegoix.—L'Orient.—Le Poëme de Job et le Scepticisme Sémitique. (Extracts from the Journal Asiatique, etc.)

From Rev. D. W. Marsh, of Mosul.

A small Assyrian tablet, in burnt clay, impressed with cuneiform characters, and with three heads: about 24 by 11 inches.

From Rev. H. M. Morgan, of Antioch.

A photographic view of the Phœnician ruins of Ruad, on the coast of Syria.

From Mr. John Muir, of Edinburg.

Original Sanskrit Texts on the Origin and Progress of the Religion and Institutions of India....By J. Muir, etc. Part First. The Mythical and Legendary Accounts of Caste. 1858.—Part Second. Trans-Himalayan Origin of the Hindus, and their Affinity with the Western Branches of the Arian Race. 1860.—Part Third.
The Vedas: Opinions of their Authors, and of Later Indian Writers, in regard
to their Origin, Inspiration, and Authority. 1861. London. 3 vols. 8vo.
Index to Mr. Muir's Sanskrit Texts. Parts First and Second. Compiled by G. B.

London: 1861. 8vo.

From the North-Chino Branch of the Royal Asiatic Society.

Journal of the North-China Branch of the Royal Asiatic Society. i. 3; ii. 1. Shanghai: 1859. 8vo.

From the Oriental Society of France.

Revne de l'Orient. Juillet, 1860. 8vo.

From M. Paić.

Pasigraphie mittels Arahische: Zahlzeichen. Ein Versuch von Moses Paić. Semlin: 1859. 8vo.

From Rev. Justin Perkins, D.D., of Orumiah.

A Manuscript Vocabulary of the Modern Syriac Language. sm. 4to.

From Miss Mary P. Pickering, of Salem.

Linguarum Duodecim Characteribus Differentium Alphabetum Introductio, ac Legendi Modus longè Facilimus Guilielmi Postelli Barentonii Diligentia. Parisiis: 1538. sm. 4to.

From Dr. A. T. Pratt, of Aleppo.

Four Saracenic Arrows, from the castle at Aleppo.

From M. Reinaud, of Paris.

Notice sur Mahomet, par M. Reinand, etc. Extrait de la Nouvelle Biographie Générale....avec quelques Additions. Paris: 1860. 8vo.

From Prof. E. Robinson, D.D., of New York.

A manuscript collection of treatises on religious subjects, in Modern Syriac; without title or date, and incomplete. sm. 4to.

From the Royal Asiatic Society of Great Britain and Ireland.

Journal of the Royal Asiatic Society of Great Britain and Ireland. xvii. 2; xviii. London: 1860. 8vo.

From Rev. D. C. Scudder, of Boston.

Manuscripts of the late Rev. H. R. Hoisington, viz:

Text and translation of the Siva-pirakasam, a Tamil philosophical work (pnblished in Jonra. Am. Or. Soc., Vol. iv). fol.

Treatise on Hindu horoscopy (iucomplete), and text and translation (incomplete) of Yokapadul, a Tamil poem on the conjunctions of planets at the hirth of a child. fol.

Translation of the Kirakasintaonani. a Tamil work on astrology (incomplete). 4to and fol.

A Comparative Grammar of the Hebrew Language, for the use of Classical and Philological Students. By John William Donaldson, D.D., etc. London: 1853.

Synopsis of a Grammar of the Karen Language, emhracing both Dialects, Sgau and Pgho or Sho. By F. Masov. Tavoy: 1846. 4to.

From Rev. C. D. Seropyan, of Constantinople.

Esquisse de l'Histoire de l'Arménie, Coup d'Oeil sur l'Arménie Ancienne, et sur son État Actnel, par G. V. Chahnazarian. Paris: 1856. 8vo.

Histoire des Gnerres et des Conquêtes des Arahes en Arménie, par l'Eminent Ghévond, Vardahed Arménien, Ecrivain du huitième Siècle, traduite par G. V. Chahnazarian, et enrichie de notes nombreuses. Paris: 1856. 8vo.

VOL. VII.

From the Smithsonian Institution.

Smithsonian Contributions to Knowledge. Vols. xi, xii. Washington: 1859-61. 4to. Smithsonian Miscellaneous Collections: Catalogue of the Described Diptera of North America, by R. Osten Sacken.-Directions for Collecting, Preserving, and Transporting Specimens of Natural History.—Catalogue of Publications of Societies and of other Periodical Works in the Library of the Smittsonian Institution, July 1, 1858. Foreign Works.—Catalogue of the Description Lepidoptera of North America, by John G. Morris. Washington: 1858-60.

From the Society for American and Oriental Ethnography, of Paris.

Comptes-Rendus de la Société d'Ethnographie Américaine et Orientale....pnbliés par le Secrétaire Perpétuel. Tome Premier. Paris: 1860. 8vo.

Annuaire Oriental et Américain, publié avec le Concours et sous les Auspices de la Société d'Ethnographie Américaine et Orientale, par Léon de Rosny, etc. Paris:

From the Imperial Academy of Sciences of St. Petersburg.

Bulletin de l'Académie Impériale des Sciences de St. Pétersbourg. i, ii. 1-3. St. Petersburg: 1860. 4to.

Mémoires de l'Académie Impériale des Sciences de St. Pétersbourg. i, ii, iii. 1. St. Petersburg: 1859-60. 4to.

Ueber die Ueberreste der Altbabylonischen Literatur in Arahischen Uebersetzungen. Von D. Chwolsohn, etc. St. Petersburg: 1859. 4to.

From the Family of the late Prof. W. W. Turner, of Washington.

Two manuscript books, containing collections for studies on the Phœnician Inscription of Sidon, by Prof. W. W. Turner; being, the one a comparative table of the characters in fac simile; the other, a comparative view of the transcriptions and translations of the scholars who have treated of the inscription. Also, criticisms on the different works which have appeared upon the subject (incomplete.-See Journ. Am. Or. Soc., vii. 55, 56).

From Dr. C. A. Van Dyck, of Beirut.

The New Testament in Arabic, being the version of Dr. Eli Smith, completed and published by Dr. Van Dyck. Beirut: 1860. 8vo. The same. Beirut: 1860. 16mo.

From the Imperial Royal Geographical Society, of Vienna.

Mittheilungen der Kaiserlich-königlichen Geographischen Gesellschaft. iii. 3. Wien: 1859. 8vo.

From Rev. Edward Webb, of Dindigal.

Tamil manuscript of the Sethn-Purana, on 273 strips of palm-leaf.

From Messrs. Williams and Norgate, of London.

The Elements of the Vedantic Philosophy, translated from the Tamil, by Thomas Foulkes, etc. Madras: 1860. 8vo.

From Dr. S. Wells Williams, of Canton.

The treaty of 1860 between the United States and China, in Chinese. 8vo size. A Chinese map of the city of Hang-chow.

From Rev. W. F. Williams, of Mosul.

An Egyptian scarabœus, found in Assyria.

A figure, cast in bronze, of the Assyrian goddess Astarte, found in a quarry near Mosul. About 21 inches high: the head and body broken apart by a recent fracture.

From Dr. A. H. Wright, of Orûmiah.

The Raudhat as Safa, a history of Persia, in Persian. Teheran: A. H. 1270-72

(A. D. 1853-56). 3 vols. in 1. fol. lithographed.

The Shah-Nameh. An Heroic Poem, containing the History of Persia from Kioomurs to Yesdejird; that is, 1849. [in Persian.] Shiraz: A. H. 1246 (A. D. 1830). fol. lithographed.

PROCEEDINGS.

New York, October 16th and 17th, 1861.

THE regular Autumn Meeting of the American Oriental Society was convened in New York, on Wednesday, October 16th, 1861, at the Conncil-Room of the University of the City of New York. The Society was

called to order by the President soon after 3 o'clock, P. M.

The minutes of the last meeting having been read, the Directors announced that they had appointed the Committee of Arrangements, with the addition of the Corresponding Secretary, a Business Committee for the meeting. Also, that they had accepted with thanks, on behalf of the Society, an invitation from Rev. William Adams, D.D., to hold the evening session at his house, commencing at half past seven o'clock.

It was further announced that

Rev. Stephen Bush, Cohoes, N. Y.,

Rev. William Clark, Newburyport, Mass., and

Mr. Russell Sturgis, London,

had signified their acceptance of election, and become Corporate Members of the Society, since its last meeting; and that the gentleman last named, Mr. Sturgis, had made himself a Life Member.

The election of new members being next in order, all those persons recommended by the Directors were balloted upon, and chosen without

dissent. As Corresponding Members, were elected

Dr. A. G. Paspati, Constantinople, and Rev. E. W. Syle, Shanghai, China.

The Corresponding Secretary, Prof. Whitney of New Haven, laid on the table the correspondence of the last half year, and read such parts of it as were of a nature to interest the meeting. He had received from England the announcement of a prize offered through the Royal Asiatic Society for the best History and Exposition of the Vedanta System of Hindu Philosophy, to be written in English, French, or German, and handed in before October 1st, 1864; the prize is of £300, and is to be awarded by Professors Lassen of Bonn, Regnier of Paris, and Goldstücker of London. The requirements are: 1. A historical sketch of the origin and early development of the Vedantic doctrines; 2. a dissertation on the text-book of the system, the Brahma-sûtras; 3. a literal translation of this work, and of Çankara's commentary upon it, to be accompanied by the original text of the sûtras; 4. an explanation of the principal variations in doctrine exhibited by Vedantic writers posterior to Çankara.

A letter from Rev. Homer B. Morgan, of Antioch, was read, announcing the despatch to the Society of the inscription-stone from Daphne, of which the inscription had been transcribed and translated in Vol. vi of

the Society's Journal. The Secretary added that this interesting monument had come safely to hand, and would be made the subject of an ad-

ditional communication at the present meeting.

Farther was read a letter from Rev. Edward Webb, of Dindigal, South India-dated Madras, June 27, 1861-accompanying an essay on the Scythian Affinities of the Dravidian Languages, which was itself later presented to the meeting.

Communications were now called for, and the following were presented:

1. On the Greek Inscription-Stone from Daphue, by Prof. James Hadley, of Yale College.

Prof. Hadley first hriefly recapitulated the circumstances attending the discovery of the stone by Mr. Morgan, and his sending to this country the copies of its inscription which had been made the foundation of his own version and translation of it, published in the Society's Journal (vol. vi, pp. 550-55). He farther stated the circumstances which gave it a special interest—such as its extent, its well ascertained date of 189 B. C., the distinction of the Syrian king, Antiochus the Great, to whose time it belongs, and, above all, its connection with the long-celebrated temples and worship of Apollo and Artemis at Daphne; respecting these he entered into some illustrative details. He then went on to describe the stone, as it now stands in the Society's Cabinet at New Haven, and to give the results of a personal examination of it. It is irregularly broken off at the top, and there is nothing to forbid the conjecture, already expressed, that one or more lines have been lost in this way. The edges of the slab have also been a little broken, especially on the left, causing the disappearance of sundry letters. The characters are somewhat irregular in form and size, and still more in interval from each other, so that the successive lines, which have all the same length upon the stone, are very unequal in the printed copy. They are, besides, so lightly traced as to have been very easily obliterated, and from this circumstance arises the chief difficulty in making out the inscription. In one or two places, where a number of letters are gone, the surface of the stone is smooth, with scarcely any appearance of depression: one might almost think that the passing of a sponge over them had wiped them out.

Prof. Hadley also spoke of three conjectural readings proposed by the distinguished archæologist, G. F. Schömann, of Greifswald, who has reproduced the inscription, from the Society's Journal, in the German periodical Philologus, Vol. xvii (1860), p. 344 etc. These are: 1. υμίν for HMIN in line 20; 2. Δαφναίων for ΔΑΙΤΤΩΝ în line 22; 3. συντάξαι (as subject of έσται επιμελές, l. 20) for ΣΥΝΤΑ-ZON in line 31. In supporting his first and third changes, Schömann represents the king Antiochus as speaking in this document to the members of the city-council, and saying: "it shall be your care to instal" the person designated as high priest: while he accounts for the enormous intervening parenthesis of eleven lines as the peculiarity of a cumbrous and long-winded court-style. An inspection of the stone shows, however, beyond all reasonable doubt, that the forms HMIN and TN-TAHON were correctly given in Mr. Morgan's copy. As regards the second change, Δαφναίων for ΔΑΙΤΤΩΝ, the letters given in the copy as ITT are very obscure; and, though it does not seem possible to bring the traces on the stone into any connection with the ANAI which Schömann would recognize in them, yet this is perhaps hardly sufficient to justify the rejection of a reading which is so strongly recommended by its fitness for the place.

The painstaking and accuracy with which Mr. Morgan's copies had been executed were referred to as deserving of high commendation: it had not been found possible, upon a study of the monument itself, to emend in a single point the readings which

they had furnished or suggested.

2. Evidences of the Scythian Affinities of the Dravidian Languages, condensed from Rev. R. Caldwell's Comparative Dravidian Grammar, by Rev. Edward Webb, of Dindigal, S. India.*

^{*} See the Society's Journal, Vol. vii (1862), where this article is to be printed in full.

The letter of Mr. Webh, hy which this paper was accompanied, stated that he had been led by strictures made by the Corresponding Secretary, iu a private communication to bimself, on Mr. Caldwell's work, to give a renewed examination to the latter's arguments for the Scythian relationship of the Southern Indian languages, and that his faith in them had thereby been increased; while he had also been impressed with the opinion that their force was much diminished by their being scattered at large through Mr. Caldwell's volume, and that, were they presented in combination, their weight would be more clearly appreciated and more universally acknowledged. He had accordingly collected, combined, and condensed them, adding a few remarks and suggestions from other sources, in confirmation of the author's views. His article, after some introductory matter, treated of the Scythian affinity of the languages in question under the following heads: 1. history of the Dravidian people; 2. absence of physiological evidence to the contrary; 3. evidence derived from religious usages; 4. evidence furnished by the Behistun tahlets; 5. evidence from grammatical analysis, as furnished by a consideration of a. the phonetic laws; b. roots; c. nouns; d. numerals; c. pronouns; and f. verbs; 6, evidence from glossarial affinities,

The paper was read by the Corresponding Secretary, who accompanied it with remarks upon the subjects discussed, and criticisms of the arguments presented.

3. A Chart of Chinese Ethics, with a Translation, and Remarks on the Ethical Philosophy of the Chinese, by Rev. W. A. P. Martin, D.D., of Ningpo, China.

The general character of the chart, which was exhibited to the meeting, was explained by Dr. Martin: it laid no claim to originality, but was a successful and popular epitome and systematization of the national scheme of ethics. He then explained its arrangement and contents. It consists of four parts: 1. An epitome of the Ta-hio, the first and most esteemed of the Confucian classics. This exhibits, in parallel columns, the rule of virtue and the art of government, the latter founded on the former, and the whole denominated the "Great Study," as the name signifies. The very title of this treatise has done much to give a preponderance to ethical studies in China, and the tract itself has imparted a moral tone to the spirit of the empire, exerting, through more than twenty centuries, an influence as beneficent as it has been powerful.-2. A chart of the heart. This places in contrast the traits of the virtuous and the vicious character, the dispositions from which they proceed being denominated Taou-sing and Jin-sing, the 'wisdom heart' and the 'human heart.' The goodness of human nature is a prime article in the Chinese creed, but experience, opposed to theory, has led them to put "human" as the antithesis to "wisdom and virtue;" and, in drawing a genealogical tree of the vices, the human heart is placed at the root. This inconsistency they reconcile by a hypothesis similar to the Platonic account of the origin of evil.—3. A chart of moral excellence. In this, the virtues are grouped in five families, under the heads of benevolence, justice, wisdom, good-faith, and politeness. This was shown to be more complete and Christian like than the Greek and Roman classification under their four cardinals.-4. A chart of the vices, the counterpart of the foregoing, and intended as an aid in self-examination. The thorny path of self knowledge exhibits even in China here and there a traveller, but the religious sentiments of the Chinese are too feeble to make the study of the heart, and the practice of virtue, a familiar duty.-The work is valuable as a projection of the national mind: and, while it betrays a want of analytical power, and a very elementary stage in mental science, it gives unmistakable evidence of a high state of civilization. The chart treated of was presented to the Society's Library hy Dr. Martin, along with its translation.

At the conclusion of the reading of this paper, the afternoon session of the meeting was, as before arranged, adjourned.

At the evening meeting, held at the residence of Rev. Dr. Adams, the presentation of communications was resumed.

4. A Brahman's Sermon, with Remarks on the Popular Religion and Worship of the Hindus, by Rev. Nathan Brown, D.D., of New York, formerly Missionary in Assam.

Dr. Brown began with a summary exposition of the popular religion of India, as distinguished from the abstruse metaphysical systems of the Hindu religious books. Its fundamental ideas are clear and simple. The universe consists of matter and spirit: the latter is God, the former the body or dress in which he is clothed. All mind is Deity: as fire may be separated and become a thousand fires, which are still all the same fire, so the original Mind is divided into millions of minds, yet all are parts of the same whole. Minds pass from one body into another, and thus go on through an almost endless round of transmigration, before they are again absorbed into the Deity. Two antagonistic principles are observed in constant operation -the principle of increase and preservation, and the principle of destruction: these opposing powers are Vishnu, the Preserver, and Shiva, the Destroyer. Preaching, of course, bears no such part in the Hindu religious services and worship as in ours, yet it was not unusual, at religious festivals, for learned Brahmans to harangue the assembled crowds of their countrymen on matters of religion. Their manner was very quiet, their posture a sitting one, their style of delivery a cadenced monotone, and all gestures were eschewed: anything different from this was thought unsuited to the dignity and sacredness of the theme. Dr. Brown read in full such a harangue as is thus given: a great part of it had been taken down connectedly, as the report of a single actual address: hut he had somewhat enlarged and completed it hy adding a few other of the commonplaces of these discourses. It began with a lament over the degeneracy of modern times as compared with ancient, and the resulting judgments brought upon the country-in part, the domination of foreigners, and the intrusion of foreign teachers. The staple of the discourse consisted thenceforward in denunciations of the missionaries, and artful and ingenious appeals to the prejudices of the auditors against them and their doctrine. Dr. Brown was himself specially denounced, and threatened with misfortune, for having in his profane possession a salagrama, or sacred stone, such as is revered by the Brahmans as a direct incarnation of Vishnu. The stone referred to was passed around for the inspection of the members present. It was of a rounded shape, rather larger than the fist, of a very dark green color, and open on one side into a hollow within, which showed the interior cavity of some fossil shell, apparently an ammonite.

5. On Recent Explorations in the Lake Country of Eastern Equatorial Africa, by Mr. Daniel C. Gilman, of Yale College.

In this paper, Mr. Gilman gave a sketch of the history of opinion and of discovery with reference to the lake or lakes occupying a part of the eastern interior of Africa, between the equator and about 12° S. latitude. It had been from ancient times a prevailing opinion that the Nile had its rise in a vast lake, and the Portuguese, since their occupation of the Zanzibar coast, had told of a lake in the interior, which was also laid down on their maps, with uncertain position and limits. In 1845, Mr. Cooley, of London, had carefully compared all the information obtained concerning this lake, and attempted to fix its position and relations. The question was stated anew by Petermann in 1855. The same year, the Mombas missionaries, Rehmann and Erhardt, sent home accounts which they believed correct of an immense inland sea, called Uniamezi or Ukerewe, very nearly as large as the Black and Caspian together. These, with the accompanying map, were published in Petermann's Geographische Mittheilungen, not without a skeptical re-examination of their authorities, and a consequent change of place of the lake, with a reduction of it to less than half the stated dimensions. In 1856, Capts. Burton and Speke set out in search of this sea, and discovered in 1858 a lake Tanganyika, occupying part of the area claimed for it: they estimated it to extend 250 miles north and south, with a breadth of 20 miles, and regarded it as absorbing, without an outlet, the riversystem of that part of the continent. In another part of the same expedition, Capt. Speke came upon the southern extremity of the lake Nyanza, 350 miles to the northeast, and 2000 feet higher, which he regarded as the source of the Nile. Various expeditions are now approaching the region from different sides, and we

may hope soon to receive a full solution of the various questions raised about it. Speke has again set out inland from Zanzibar, for the exploration of the Nyanza: Petherick is ascending the Nile to meet him: Livingstone is on the sonthern edge of the region, and has explored one small lake, the source of a hranch of the Shire, and separated from another lake—perhaps the Nyassa—by but a narrow interval. Other explorers of less consequence are laboring to penetrate the same country.

Mr. Gilman's discussion of the subject was illustrated by maps, and by charts which presented the views and theories and discoveries of the different writers and

travellers to whose works reference was made.

6. On the Ruins of Ancient Nineveh, by Rev. Dwight W. Marsh, Missionary in Eastern Turkey, lately stationed at Mosul.

Mr. Marsh's object was, by an oral description of these ruins, to convey as lively an impression as possible of their situation, extent, and present appearance. He first described the general aspect of the plain, with its hackground of mountains, as seen from the house-tops of Mosul: he indicated the site and appearance of the mounds upon this plain which cover the remains of the city, both as seen from Mosul, and as beheld by one riding over and among them-the great circuit of the wall of the city, with the two principal mounds of Kouvunjik and Nehbi Yunus in it, and the remoter outlying series of mounds, from Khorsabad on the north to Nimroud on the south. He gave an account of the method of the excavations undertaken by Layard and others, and the look of the edifices as laid open by them, and explained the mode of construction of the latter, as raised upon immense elevated platforms, composed of long narrow halls of great height, which were separated by heavy walls of unhurnt hrick, lined at the base with the well-known sculptured slabs of gypsum, and covered with wooden roofs. He pointed out the evidences that the buildings were destroyed by firc, and, referring to the interesting and difficult question of how their ruins had become covered as at present under mounds of carth, said that he could not explain it otherwise than hy their having become, during the twenty centuries of their ruined state, filled up and enveloped hy dust and sand hlown into and over them from the neighboring plains during the heat and dryness of summer: in connection with this, he spoke of the violent dust storms and sand spouts which are often seen sweeping through the valley.

Reference being made to the hattle-field of Arbela, the scene of the final conflict between Alexander and Darius, Mr. Marsh was drawn on hy inquiries to point out its precise situation, and set forth the circumstances hy which its identity is estab-

lished.

With this the reading of communications was closed for the evening, and, after an hour or two of social intercourse and festivity, the Society separated.

The Society reassembled on Thursday morning, Oct. 17th, at 9 o'clock,

in the Law lecture-room of the University.

After the transaction of a few matters of business, Prof. Charles Beck, of Cambridge, introduced the subject of the very illiberal management of the Vatican Library, in the past and at present, and the almost insuperable difficulties thrown in the way of scholars who desired to make acquaintance with its treasures, or use them for the benefit of the world—difficulties of which he had himself, within no long time, made experience. He referred to the prospect that Rome might at an early day become a part of the Kingdom of Italy, and thought it would not be impertinent or out of order to request our Minister at Turin to use his influence in putting an end to the present style of administration of the Library, and introducing a system which should render its collections

readily accessible to those who are qualified and desirous to use them. He therefore moved the adoption of the following resolutions:

Resolved, That the American Minister in Italy be respectfully requested to use, at the earliest opportunity that may offer and in such a manner as he may deem expedient, his influence in bringing about a change in the administration of the Vatican Library.

Resolved, That the President and Corresponding Secretary be requested to communicate, with n suitable explanation, the foregoing resolution to the American Minister in Italy.

The offering of communications was then resumed.

7. Notes on the City of Yedo, by Dr. R. Lindau; communicated by Rev. E. W. Syle, of Shanghai, China.

This paper was a detailed and elaborate description of the Japanese capital, founded on native documents and on personal observations. After describing its geographical position and general situation, Dr. Lindau takes up the different quarters of the city, in the following order: 1. The suburb of Honjo, on the east side of the Ogava river; 2. Siro, the imperial castle, the nucleus of the city proper; 3. Sotosiro, "outside the castle," separated from the castle and from the Midzi respectively by broad canals; the portion of it between the castle and the bay and Ogava river being the true commercial city; 4. Midzi, "habitation-town," extending out into the country on every side except toward the bay. The author goes through in succession the districts into which these principal divisions are subdivided, specifying the temples, palaces, and other things of interest which they severally contain, and indicating the character of their population; naming also the principal roads, canals, and bridges. In a general recapitulation and summary, he distributes as follows the 85 square kilometres (each about $\frac{7}{18}$ of a sq. mile) which he estimates the whole city to cover: paddy fields, 26½; temples, 19½; palaces, 30½; residences of the population at large, only the small remainder, or 8½ square kilometres. The population he estimates much below the number usually reckoned, or at 1,555,000, divided between followers of the great princes, 90,000; followers of the lesser princes, 342,000; imperial officials, 150,000; priests, 200,000; merchants and other residents (by actual census in 1857), 573,000; floating population. 200,000. The external aspect of the city is described as imposing from a distance, but rather poor and mean from within: in riding through it, one might alternately think he was passing through a flourishing village, or the baudsome park of a rich proprietor, or a manufacturing city with a poor population. The fluest sight to be seen in it is the cortege of a prince, making its way through the streets. Vehicles drawn by beasts of burden are unknown, and horsemen are very rarely to be seen.

The description was illustrated by Mr. Syle by reference to a large colored Japa-

nese map of the city, borrowed by bim for the occasion.

After the reading of this paper was finished, Dr. Martin exhibited to the meeting a smaller map of Yedo, as also a map of Nagasaki, both which he had brought for presentation to the Society's Cabinet. He likewise showed an impression from the face of the Nestorian monument of Si-ngan Fu, brought for a similar purpose, but which, as the Society already possessed two counterparts of it, he should dispose of in another manner: like the Society's copies, it presented only the two lines of Estrangelo characters which run along the principal Chinese inscription, and not the rest of the Syriac portion of the inscription. The subject of this famous inscription being thus introduced, reference was made by the Corresponding Secretary to a somewhat flippant criticism, coming from a German source (Zeitsch. d. Deut. Morg. Gesellschaft, xiv. 173), upon Mr. Wylie's article respecting it, printed in Volnme v. of the Society's Journal, and Dr. Martin was inquired of as to the state of opinion among Chinese scholars, native and foreign, in China itself, touching the disputed question

of the authenticity of the inscription. He replied that he knew of no foreign scholar of note who questioned its authenticity; and as to the Chinese, it had not apparently entered into their heads to doubt it: the question was no question at all to them. He strongly supported the genuineness of the inscription, as a work of the period and authorship to which it laid claim. Its forgery by Chinese hands he regarded as an utter impossibility; and even with Jesuit aid, it was so exceedingly improbable as to be virtually impossible.

8. On Lepsius's Standard Alphabet, by Prof. W. D. Whitney, of Yale College.

Prof. Whitney stated that he had been repeatedly inquired of, by missionaries and others, during two or three years past, respectiog the merits of Lepsius's "Standard Alphabet for reducing Uuwritten Languages to a Uniform Orthography in European Letters" (Leipsic, 1855: London, do), and that he had been led thereby, and by the general interest of the subject, to give the work a careful examination, of which he presented the results in this paper. He began with considering the general aspects of the question, setting forth the end to be attained and the difficulties in the way of attaining it; he detailed the qualifications required for treating such a matter successfully, and showed the especial fitness of Lepsius for the work: in this, and in the extensive approhation and adoption which the work had received at the hands of literary and missionary associations, he saw powerful reason for regarding it in the most favorable light possible, and adding in securing its general acceptance. He then went on to examine and criticise in detail the analysis of spoken sounds, and the rules for transcription laid down, and the system of signs for sounds selected by Prof. Lepsius:—but as the paper is expected to appear in full in the next Number of the Society's Journal, it is not necessary to give here any fuller statement of its contents.

In the course of the discussion which followed the reading of this communication, Messrs. Martin and Syle explained to the meeting the methods of transcription of the Chinese vernacular dialects adopted by the missionaries in China.

9. On the Chronicle of Sulpicius Severus, as edited by Dr. J. Bernays of Breslau, by Prof. Charles Beck, of Cambridge.

Prof. Beck gave a summary account of the life and literary activity of Severus. as reported by his editor. He referred particularly to his connection or sympathy with certain heretical sects of his time, which were persecuted and repressed by the civil rulers, and pointed out passages in his Sacred History where he had slightly altered or added to the scriptural account, evidently in covert allusion to these and other events of his own period. Such alterations were regarded by Bernays as of little or no account, but Prof. Beck thought them important, as indicating that the chronicler was not altogether above amending his authorities where it suited his own purposes. He then went on to the principal topic discussed in his paper-namely, Severns's account of the circumstances preceding and attending the capture of Jerusalem, in which he differs greatly from Josephus respecting Titus's purpose as regards the destruction of the temple and city, as well as the good faith of his offers of pence during the siege. Prof. Beck offered a full synopsis of Beroays's elaborate argument intended to prove that Severus was upon this matter more trustworthy than Josephus, who wrote under the influence of Titus him-elf, and that he had derived his facts from the part of the History of Tacitus now lost. He then, while doing full justice to the great learning and ingenuity displayed by Bernays, proceeded to answer his arguments, and to show that they lacked a sufficient foundation, and did not touch the credibility of Josephus, whose account was much more to be relied upon than that of the later chronicler.

The hour fixed upon for adjournment having arrived, the Directors gave notice that the next meeting of the Society would be held in Boston, on Wednesday, May 21, 1862; a vote of thanks to the authorities of the University for the use of their rooms, kindly afforded for the occasion, was passed; and the Society adjourned.

PROCEEDINGS.

Boston and Cambridge, May 21st, 1862.

THE Annual Meeting of the Society was held in Boston and Cambridge, Wednesday, May 21st, 1862, commencing at 10 o'c. A. M., at the room of the American Academy of Arts and Sciences, in the Athenæum building, Boston.

The chair was taken by Prof. Beck, of Cambridge, who briefly explained to the Society the circumstances which caused the absence of its President from the meeting: he had recently sailed for Europe, for the benefit of his health, and especially in order to consult eminent foreign oculists with respect to his eyes, of the use of which he had been deprived during several months past. A resolution expressing the regret and sympathy of the Society was a little later offered by the Corresponding Secretary, and unanimously adopted, as follows:

Resolved, That the Society sees with regret the absence of its honored President, Prof. Edward Robinson, D.D., of New York, and is pained to learn that he has been compelled by the state of his health, and especially by the impaired condition of his eye-sight, to cross the ocean for medical aid; and it would express its earnest hope that the voyage may prove snecessful, and that the health and strength, so important in this case to the interests of learning, may be restored and long preserved.

The Treasurer's report was presented, containing the following résumé of the receipts and expenditures of the year:

	RECEIPTS	-			
	hip, -	s years,	\$75.00 395.00 145.00 5.00	620.0	• \$557.22
Sale of Journal,	-	-		57.7	1
Total receipts during	the year,	•		-	\$677.71
					\$1234.93
EX	PENDITU	RES.			
Paper and printing for Journal, V	ol VII (in	part),		-	- \$566.34
Other printing,		-		-	7.89
Binding books,		•		-	48.50
Expenses of Library, Cabinet, con	rresponden	ce, etc.		•	• 46.25
Total expenditures during th		-		-	- \$668.98
Balance on hand, May 21st, 1862		-	• •	-	- 565.95
					\$1234.93

It was explained that the balance in the Treasury appeared greater than it actually was, because there was a larger outstanding liability now than at the corresponding time last year, on account of the printing of the Part of the Journal, yet incomplete, which is to form the issue for 1861-62.

The Treasurer's accounts were audited by a committee, and accepted by the Society.

The Librarian presented and read a list of the donors to the Library and Cabinet during the year past, and described the several donations.* He stated that the present number of titles of printed books contained in the Library was 2358, and of manuscripts, 117. About \$50 had

been expended in binding.

The Committee of Publication informed the Society that the second half of the seventh volume of the Journal, due to the members at or about the time of this meeting, was not yet through the press, and that its distribution would be unavoidably deferred for some time longer. The Number was to contain, besides the usual miscellanies, three principal articles; of these, two were presented at the last meeting, viz. Mr. Webb on the Dravidian Languages, and Prof. Whitney on Lepsius's Standard Alphabet: the third, the text of the Atharva-Veda Prâtiçâkhya, with translation and notes, by Prof. Whitney, which would be presented at this meeting, was already partly in type, and was being pushed forward as rapidly as circumstances permitted.

The Corresponding Secretary reported the names of the following persons, who, having accepted election to Corporate Membership of the Society since its last meeting, were newly enrolled in its list of members:

Mr. George L. Ditson, Burlington, Vt.

Mr. Pelatiah Perit, New Haven.

Mr. Charles E. West, LL.D., Brooklyn, N. Y.

He farther reported the decease during the past six months of the following Corporate and Corresponding Members:

Pres. Cornelius C. Felton, LL.D., Cambridge, Mass.

Prof. Samuel H. Turner, D.D., New York. Pres. John Wheeler, D.D., Burlington, Vt.

Rev. Elijah C. Bridgman, D.D., Shanghai, China.

Rev. Harrison G. O. Dwight, D.D., Constantinople.

Rev. Benjamin C. Meigs, lately of Ceylon.

P. E. LeVaillant de Florival, Paris.

This announcement, containing a greater than usual number of venerated names, was not suffered to pass without due expression of the Society's sense of the losses it had sustained, and a tribute of admiring respect to the memories of the deceased. Dr. Francis, of Cambridge, gave an eloquent sketch of the life and labors of Pres. Felton, and an estimate of his character as a man and as a scholar. Dr. Anderson spoke ir the same strain, and added also a more particular statement of his important aid to the Society in the early years of its weakness. Dr. Anderson then went on to describe the character, as laborers in the missionary work and in the cause of science, of Drs. Bridgman and Dwight and Mr. Meigs, and was followed upon the same subject by Rev.

^{*} A list of the accessions to the Library and Cabinet since May 1861 will be found appended to this report of Proceedings.

Mr. Treat and Rev. Dr. Allen, and farther, by Rev. Dr. Dean, of Shanghai, in an especial tribute to his late fellow-laborer in China. The Corresponding Secretary added a few words respecting the position and services of Dr. Turner and Prof. de Florival.

The Directors presented to the meeting the names of several gentlemen, recommending that they be elected Corporate Members of the Society, and they were, upon ballot held, elected without dissent.

The Directors farther gave information that they had reappointed the Committee of Publication of last year. Also, that they had accepted an invitation of the members of the Society at Princeton, N. J., to hold the next Semi-annual meeting in that city, and had appointed it to be held there on the 15th of October next, designating Prof. W. Henry Green, D.D., of Princeton, Alexander I. Cotheal, Esq, of New York, and the Corresponding Secretary, as Committee of Arrangements for the meeting.

The Business Committee for the present meeting announced that they proposed that, in accordance with the usual eustom of late years, the morning session should adjourn at or before 1 o'c., and that the Society should reassemble at 4 o'c., at the residence of Dr. Beck, in Cambridge: and the proposal was, upon motion, accepted by the Society.

The election of a board of officers for the cusuing year being next in order, the following gentlemen, proposed by a nominating committee,

were balloted for and duly chosen:

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President-Prof. Edward Robinson, D. D., LL. D., of New York.
Vice-Presidents ( Prof. CHARLES BECK, Ph. D., Vice-Presidents ( Rev. WILLIAM JENKS, D. D.,
                                                                 Cambridge.
                                                                 Boston.
                   Pres. T. D. Woolsey, D.D., LL.D.,
                                                              " New Haven.
Corresponding Secretary-Prof. W. D. WHITNEY,
                                                              " New Haven.
                                                              " New Haven.
Secr. of Classical Section—Prof. James Hadley,
                                                              " Cambridge.
Recording Secretary—Mr. Ezra Abbot,
Treasurer-Mr. D. C. GILMAN,
                                                              " New Haven.
Librarian—Prof. W. D. WHITNEY,
                                                                  New Haven.
                                                              " Boston.
             Rev. Rufus Anderson, D. D.,
Directors (Mr. J. G. Cogswell, LL. D., Prof. W. H. GREEN, D. D., Prof. J. J. Owen, D. D., Prof. A. P. Peabody, D. D., Dr. Charles Pickering, Prof. E. E. Salisbury,
                                                              " New York.
                                                              " Princeton.
                                                              " New York.
                                                              " Cambridge.
                                                               " Boston.
                                                              " New Haven.
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The Corresponding Secretary laid upon the table the correspondence of the half-year, and described its character. The only parts of it which he proposed to read were two papers which had been sent to him to be laid before the present meeting. These were accordingly ealled for first among the communications to be presented.

1. Brief Notes on the Language of the Kemi Tribe, in Arraean; by Rev. L. Stilson, lately missionary of the American Baptist Missionary Union in Farther India.

A letter from Mr. Stilson, accompanying this paper, gave an account of the circumstances which led to his making acquaintance with the tribe, and of his residence among them for several months in 1843, for the purpose of gaining some knowledge

of their language, and preparing a system for its reduction to writing, in the Burmese character. A spelling book and reader were prepared by him, specimens of which were sent with the paper. Circum-tances, however, had caused the relinquishment of the plan formed by the Missionary Union for establishing a mission with the tribe, intercourse with it had terminated, the books prepared had not been used, and no European had since learned the language. The paper, which is expected to appear in a future number of the Journal, contained a summary presentation of the Kemi grammar, with brief vocabulary, sentences, Lord's Prayer, and analysis.

2. On the Species or Derivative Forms of Semitic Verbs, by Prof. W. Henry Green, D.D., of Princeton, N. J.

In this brief paper, Prof. Green gave a concise exhibition of the Semitic scheme of conjugations, founding it upon the Arabic, as the most complete and regular among them. He first pointed out the fundamental character of the Semitic roots, as triliteral, and as developing into forms in great part by internal modification, instead of, as in the Indo European languages, by external additions alone. The first form of Semitic conjugation was produced by vocalizing the consonants, as qatala; this was strengthened by duplication, prolongation, or prefixion of a vowel, to form the 2nd, 3rd, and 4th conjugations, with transitive, intensive or causative meaning, as gattalo, gatala, agtala; and again, with duplication at the end, the 9th and 11th, or color conjugations, as qtalla, qtalla. The formation of the passive of these and the other forms was by a weaker vocalization, as qutila, quttila, etc. Middles were derived by the prefixion of reflexive prononunal elements, n and t, giving, from the first, the 7th and 8th, as inquiala, iqtatala, from the 2nd and 3rd, the 5th and 6th, as tagattala, tagatala, and from the 4th, with the help also of a sibilant, the 10th, istagtala. The Hebrew conjugations are identical with some of these, formed with the same materials and in the same manner. The other dialects have lost all means of forming middles and passives except by prefixing t. The Hebrew rarely, and the Ethiopic regularly, produces compound forms, ingrafting one conjugational sign

The comparative scheme of conjugations is then as follows:

Anabic. Active (with passive)	Simple.	Intensive.	Trans. or Rel.	Causalive.				
Middle (with passive)	7, 8	5	6	10				
Етнюче.	•							
Active	1	2	3	4	$(2\times4$	$3\times4)$		
Middle	8	5	6	10	(2×10)	3×10		
ARAMAIC.					•			
Active	Peal	Pael	Aphel and Shaphel.					
Middle	Ith peel	Ith paal	Aphel and Shaphel. Ittaphal and Ishtaphal.					
HEBREW.	•	•	•		•			
Active	Kal	Piel	Hiphil,					
Passive		Pual	Hophal.					
Middle	Niphal	Hithpael						

The presentation of communications was resumed in the afternoon, at the meeting in Cambridge.

3. The Atharva-Veda Prâtiçâkhya, or Çâunakîyâ Caturâdhyâyikâ: Text, Translation, and Notes, by Prof. W. D. Whitney, of New Haven.

This work, which is to occupy a considerable part of the forthcoming half volume of the Society's Journal, was laid before the meeting by Prof Whitney. He read, by way of specimens of it, the introduction, and characteristic passages of the translation, with the notes upon them. He then described the position and value in the Hindu literature of the class of works of which this was one, the system of

schools of Vedic study in which they grew up, and the character of the grammatical science which they represented.

The subjects touched upon led to a general discussion of the probable mode of transmission of the Vedas and of the Praticakhyas themselves, and on the extent to which the memory may be trained to preserve long literary compositions without the aid of writing.

4. On Chwolson's "Remains of Ancient Babylonian Literature in Arabic Translations," by Prof. James Hadley, of New Haven.

Prof. Hadley began by referring to a former communication, presented Oct. 18, 1860, in which his aim was to describe the memoir of Chwolson, rather than to criticise it. He spoke of the discussions excited by the startling announcement of an extant Babylonian literature, as old, nearly, as the Pentateuch; and mentioned particularly the adverse criticisms of Renan and Gutschmidt-Renan's (a full analysis of his memoir) in the Journal de l'Institut for 1860, and Gutschmidt's in the 15th volume of the Zeitschrift der Dentschen Morgenlandischen Gesellschaft. He then proceeded to give a condensed ynopsis of the objections urged against the antiquity and authenticity of the writings which Ibn Wah-hiyyah, about 900 A.D., professed to translate from the Nabathaean (or Babylonian) language into Arabic. lowing were specified as the main grounds of objection:-1. The way in which they represent Adam, Seth, Noah, Abraham, and other biblical personages, with legendary features, such as appear in Rabbinic, Christian, and Mohammedan traditions.-2. The numerous references which they make to the Greeks (or lonians), as having a prose literature known to the Babylonians and looked upon by them with jealousy. Also, allusions to Greek mythology, and traces of Pythagorean and New-Platonic ideas. -3. Apparent allusions to the religious festivals of the Christians, and to their monastic system, as developed in the East.-4. The spirit and character of these writings, diffuse, trivial, rationalistic, and in general unlike the known productions of very early times .- 5. Their total absence of agreement, and even of connection, with the notices of Babylonian antiquity found in the fragments of Berosus and in other sources. It was shown that these arguments, taken as a whole, are unanswerable, and that the Nabathaean writings must accordingly be recognized as forgeries. As to the time when they were forged, Prof. Hadley stated the views of Renan, who regards them as composed in an Aramaean dialect, shortly before the rise of Mohammedanism, and of Gutschmidt, who holds that (excepting, perhaps, the one ascribed to Tenkelusha) they were, all of them, productions of Ibn Wahshiyyah himself; and then gave his reasons for preferring the latter opinion.

5. On the Historical Credibility of the Reported Burning of the Alexandrian Library by order of the Caliph Omar, by Prof. Convers Francis, D.D., of Cambridge.

This was a full and elaborate discussion of the historical point which formed its subject. Its author assembled and reviewed the information handed down to us respecting the libraries assembled at Alexandria during its flourishing period, and their fates under the Christian domination down to the time of the Mohammedan invasion, arguing that they had greatly suffered prior to the latter event, and that the continued existence of so colossal a collection was not probable. He then traced the popular story respecting the destruction of the library to its earliest sources, which he showed to be considerably posterior to the alleged event, while no notice of it was found in authors more nearly contemporary. He examined the story itself in the light of its own intrinsic probability and the credibility of its details, indicating its weak points, and also in the light of its relation to the character of the Mohammedan conquerors. His conclusions were decidedly unfavorable to the trustworthiness of the narrative.

The time of adjournment having arrived, the Society separated, to come together again at Princeton, N. J., on Wednesday, Oct. 15th, 1862.

PROCEEDINGS.

Princeton, October 15th and 16th, 1862.

Pursuant to adjournment, the Society convened for its Semi-annual Meeting on Wednesday, October 15th, 1862, at 3 o'c., P. M., in the Library room of the College of New Jersey, at Princeton, N. J.

In the absence of the President, who was understood to be upon his way home from Europe, the chair was taken by Dr. Beck, of Cambridge, the only Vice-President present. Prof. J. Hadley, of New Haven, was

appointed Recording Secretary pro tempore.

The Committee of Arrangements gave notice of their proposed plan of proceedings for the meeting: namely, that the Society should adjourn at about 6 o'c., to meet again at 9 o'c. on the morning of the next day, and should accept an invitation from Prof. Green to a social gathering at his house in the evening. The proposal was accepted, and the sessions ordered accordingly.

From the Directors was reported a recommendation that, in view of the disturbed state of the country and consequent straitening of the means of many of the members, and also because the publication of the half-volume of the Journal for 1861-62 had been so long delayed that it would not be possible to issue another before the end of the current fiscal year, the collection of the annual assessment for the year be omitted. The proposition was briefly discussed, and, upon motion, adopted, and the Society voted not to exact of its members the regular contribution for 1862-63.

The following gentlemen, elected at the last meeting, were announced as having become Corporate Members:

Prof. James M Hoppin, of New Haven. Rev. T. Starr King, of San Francisco, Cal. Rev. Charles P. Krauth, D.D., of Philadelphia. Prof. Andrew P. Peabody, D.D., of Cambridge.

Other gentlemen, proposed by the Directors, were by ballot duly elected to membership; among them, as Corresponding Member,

Rev. Isidore Loewenthal, Missionary at Peshawur, N. W. India.

The Committee of Publication reported that the completion of the part of the Journal now due to the members had been delayed by the difficult nature of the matter in hand longer than was anticipated, but that its appearance would be deferred but a few weeks.

The Corresponding Secretary presented his budget, and read two brief communications which had been sent to him for presentation to the meeting. One of these was by Mr. George L. Ditson, of Burlington, Vt., upon the significance of the Semitic letter aleph; the other was by Mr. Pliny E. Chase, of Philadelphia, on the radical etymology of the words love and friend.

The following communications were then offered:

1. On the Aspirate Mutes of the Primitive Indo-European Language, by Prof. James Hadley, of New Haven.

The paper began with an examination of the aspirate letters in the various branches of the Indo-European family. The Sanskrit ph, bh, th, dh, etc., are now sounded in India as p, b, t. d, etc., followed by a distinctly audible h. That the h was prominent in the ancient sounds is proved by the fact that they often passed into it, losing their mute element. This fact seems fatal to the recently expressed opinion of Lepsius, that Skr. ph, th, kh were not more strongly aspirated than English and German p, t, k. It was shown that the Greek φ , \mathfrak{I}_{λ} χ must have been originally sounded like Skr. ph, th, kh: and that they probably kept those sounds down to the Christian era, or even later; though it is not easy to understand how φ and χ could be thus sounded before \mathfrak{I}_{λ} . Etymologically, φ , \mathfrak{I}_{λ} , χ correspond to Skr. bh, dh, gh, and Lat. b, d, g; but, at the beginning of a word, the Latin has h for χ , and f for q and sometimes for 9. The Letto-Slavic languages are without aspirate mntes, and those of the Germanic and Celtic tongues are of secondary origin; all there have b, d, g in place of Gr, ϕ , θ , χ , and Skr, bh, dh, gh. Yet the Germanic languages show by their Lautverschiebung that the sounds so represented were primitively distinguished from the unaspirate mutes, both surd and sonant. The question then arises whether the aspirates of the original language were surd, like $Gr. \varphi, \theta, \chi, or$ sonant, like Skr. bh, dh, gh. The latter is made probable by the fact that they are represented by sonant letters in nearly all branches of the Indo European family. This opinion, adopted by Curtius, Bopp, and Schleicher, has been lately impugned by Kuhn. His argument that a change from bh to ph (in Gr. φ) is improbable, as being from weaker to stronger, has little force, since such changes are not uncommon: in the Gothic and the Modern Armenian, for example, every original b has become p. And besides, ph is certainly easier of utterance than bh, which combines surd and sonant elements. The argument that, where new aspirates have been developed in the Indo European languages, the beginning has been made with surd aspirates, has greater weight: although it is not true, as Kuhn appears to suppose, that the sonant aspirates of the Celtic have been developed out of the surd. His remaining argument is founded on the fact that in some cases the Gr. τ , θ , χ correspond to the surd aspirates of the Sauskrit: but it is not yet clear that this correspondence may not be fairly attributed, either to occasional anomaly, or to independent development of aspirates out of tenues. It therefore still remains probable that the primitive aspirates were sonant, or bh, dh, and gh.

2. On the Internal History of the Authorized English Version of the Bible, by Rev. C. P. Krauth, of Philadelphia.

Dr. Krauth simply sketched out, in his present communication, the main features of the work he had undertaken upon the English versions of the Scriptures. He described in their chronological order the different translations made after that of Wickliff, and showed the close relation subsisting between them, each being founded upon its predecessors, and all of them owing much more than was generally supposed to the German version of Luther; so that the language of our authorized Bible contains elements from them all. He called attention to the many valuable results derivable from their comparison, as regards not only the sources and history of the familiar text, but also the character and progress of early English Oriental scholarship, and the history of the English tongue.

3. Remarks upon the Use of the Roman Character in writing and printing the Modern Languages of India, by Rev. J. H. Morrison, D.D., Missionary in N. W. India.

Dr. Morrison laid before the meeting (in part, as gifts from himself to the Society's Library) several works bearing on this sobject, either as containing records of the controversy respecting it in India, or as illustrating the practically accomplished romanization of some of the dialects. He gave a brief history of the movement, from its inception, and presented the main arguments which had been employed in support of the relinquishment of the native alphabets, and the adoption in their place of one modelled upon our own: these arguments being chiefly the vastly

increased correctness, compactness, and cheapness of printing, the augmented intelligibility of the text, the greater ease of acquisition, both by natives and foreigners, the encouragement and aid it would furnish the natives toward acquiring English, its influence in helping to break down the distinctions of race, etc. On some of the points referred to, carefully prepared statistics were given. The obstacles which had impeded the progress of the movement, both with English and natives, were also explained, and it was stated to have gained steadily in strength and favor, and to have obtained the approval and support of many who at first opposed it most strongly; it was now spreading even in Southern India, where, until quite recently, the subject had not been at all agitated. A large number of works, in many dialects, had been published in Roman characters, and their use was rapidly extending.

The sessions of the Society were resumed on Thursday morning, and continued through the day, with an hour's intermission at noon. The following additional communications were presented:

4. On the Ethnology of the Tribes of Southern Africa, by Rev. Lewis Grout, lately Missionary at Umsunduzi, Port Natal.

Mr. Grout had brought with him to the meeting the manuscript of a work on Southern Africa, in which were embodied the fruits of his observation and study during his residence of fifteen years in that country, and of which the publication may be looked for as soon as the times allow. He read from it, by request, one or two chapters, which treated of the ethnology of the country, and especially of the origin and affinities of the family to which the Zulu tribes belong, or the Zingian family, as he preferred to call it. He said that Dr. Bleek's recent investigations had convinced him that there was a genetic connection between the Coptic or Egyptian race on the north, and the Hottentots of the south, and he supposed that a portion of the North-African people had been detached from the rest by the intrusion of other races, and driven forward from point to point until it had reached its present southern position.

Questions from some of the members present drew out from Mr. Grout farther information respecting the Zulus,

5. The Teachings of the Vedic Praticakhyas with respect to the Theory of Accent, and the Pronunciation of Groups of Consonants, by Prof. W. D. Whitney, of New Haven.

These two subjects, Prof. Whitney said, he had had occasion recently to work out more fully than any one, to his knowledge, had hitherto done, in the notes to the Atharva-Veda Praticikhya, now on the eve of appearing in the Society's Journal; and they were brought forward as fairly illustrating the character of the ancient Hindu phonetic science—the most ancient which the history of philology has to show, and superior to any, except the latest European, both in the nicety of its observation and the subtlety of its distinctions; illustrating, also, the tendency which it exhibited to over-refinement, and to exaggeration of subordinate, accidental, or doubtful elements of articulation, which converted it, in no small degree, into a prescriptive instead of a descriptive science.

A discussion of some length, in which many of the members present took part, followed, with respect to the modes of reading or reciting written and memorized texts practised among Eastern nations, and among the ancient Greeks; as also respecting the character of the Sanskrit as a language reduced to its present form by long and rigid grammatical culture, and as wanting the naturalness and freedom of a proper vernacular.

 An Account of Dillmann's Ethiopic Grammar, with some Remarks respecting the Ancient Ethiopic Language, by Prof. W. H. Green, D.D., of Princeton.

Prof. Green began with an account of what had been done in Europe for the elucidation of the ancient Semitic dialect known as the Geez or Ethiopic; it was, in his opinion, much less than the importance and interest of the subject called for,

neither grammar nor dictionary having appeared since the imperfect, though very creditable, works of Ludolf (about A.D 1700). He passed to a description of the Ethiopic labors of Prof. Dillmann, of Kiel, who had begun a critical edition of the Ethiopic version of the Bible, had prepared a grammar, and had just now published the first half of a large and comprehensive lexicon of the language. He then took up more particularly an exumination of the grammar. By way of introduction, he discussed at some length the question whether the profoundly theoretical method, adopted by Ewald and his pupil Dillmann, of setting forth grammatical material, or the more empirical one usually followed by other grammarians, was to be preferred; and he came to the conclusion that while the former had its advantages and presented the facts of a language in a form which a scholar deeply versed in it would seek to give them in his own mind, the other had such a great and obvious practical superiority as a help to the student that it must be allowed to be decidedly the better of the two. After an account of the work, to which he awarded high praise as a complete and trustworthy manual of the language, he went on to give, as derived from it, a characterization of the language itself. Its relation to the other Semitic dialects, and especially to the Arabic, which was shown to be its next of kin, although not its parent, was set forth and illustrated. Finally, the striking peculiarities of its alphabet, as compared with those of the Semitic languages in general, in respect to the form of the letters, their arrangement, the direction of writing, the mode of designation of the vowels, etc., were described, and the different theories which had been formed to account for them were stated and criticized.

7. Illustrations of the Manners, Customs, and Scenery of the Turkish Empire, by Rev. H. J. Van Lennep, Missionary in Turkey.

This communication consisted of a series of extracts from a work which Mr. Van Lennep, after a residence of about twenty years in the East, had been preparing during his vacation and temporary sojourn in this country for the benefit of his health, with the intention of bringing as vividly as possible before the eyes and minds of the Occidentals the characteristic features of Oriental life and character, both in general, and as distinctively belonging to the different nationalities collected under the sceptre of the Sultan. The work is now publishing by subscription. It is to be illustrated by elegant colored lithographs of large size, of which a specimen was shown to the members present. The passages read related to a variety of subjects, and illustrated the manners and customs of the different classes of the Turkish population. The last extract characterized the Oriental music, and described a contest in improvisation between a local and a wandering poet and singer which Mr. Van Lennep land witnessed.

8. Translations of Bulgarian Popular Poetry, by Prof. E. Riggs, D.D., of Constantinople: read by Prof. Hadley, of New Haven.

The songs of which Dr. Riggs had sent translations were selected from a collection of more than six hundred pieces, all professedly taken from the mouths of illiterate common people, and forming a volume of nearly 600 octavo pages, one of the largest yet printed in the Bulgarian language.* The versions were stated to be made as literal as possible, and in the metre of the original. The pieces were entitled Ivan Popoff and the Fairy, Anna the Cuckoo, and King Ivan Shishman. The translator called attention to the style of the two former, as very strikingly resembling that of Mr. Longfellow's Song of Hiawatha, in respect to the measure, the absence of rhyme, the repetition of words from the end of one line to the beginning of the next, and of whole lines in a question and its answer, a promise and the story of its fulfillment, and the like. This style Dr. Riggs declares to be the one most employed in the volume. Other measures, with lines of from five to seventeen syllables, are also found. The themes are various: some are heroic some erotic; some exhibit religious legends, or fables of the doings of fairies and dragons, or stories of the contests of saints with monsters inhabiting pools or fountains. The whole presents an interesting picture of the traditions and fancies prevailing among the mass of the Bulgarian people.

^{*} Bulgarski Narodni Pesni, etc.: i. e., Bulgarian Popular Songs, collected by Demetrius and Constantine Miladinov. Agram: 1861.

9. On New English Words, by Mr. F. P. Brewer, of New Haven.

Mr. Brewer had collected from various sources a considerable number of words which had begun the attempt to gain an acknowledged place in the vocabulary of the English language, and he presented them as illustrating the wavs in which a language enriches itself by increase of material, pointing out the analogies according to which the new formations were made, and indicating their probable fate.

He also added a brief exposition of the figure conveyed in Hebrews vi. 20 by the use of the word $\pi\rho\omega\delta\rho\rho\omega\rho_0$, proposing a new interpretation of the latter, as meaning one sent forward from the bow of a ship with an anchor to plant out in front of it, for its greater security. He sought support for this interpretation in other passages, culled from the New Testamout as well as from the classic Greek literature.

10. On the Relation of the Semitic to the Indo-European Languages, by Mr. Jacob Wilson, of Canajoharie, N. Y.: read by the Corresponding Secretary.

This paper set forth its author's reasons for holding, as he did, the close relationship of the Semitic and Indo-European idioms. It presented a somewhat detailed comparison and identification of their elements and forms, followed out through every department of the grammar.

11. On the Views of Biot and Weber respecting the Origin of the Hindu and Chinese Asterisms, by Prof. W. D. Whitney, of New Haven.

Prof. Whitney began with referring to a series of articles, respecting the translation etc. of the Sûrya-Siddhânta which had appeared in the sixth volume of the Society's Journal, furnished to the Journal des Savants, 1860, by the venerable M, Bint, since deceased, and availed himself of the opportunity to offer some explanations and reclamations in answer to unfavorable criticisms made upon certain points in the work in the course of this generally favorable notice of it. He then went on to introduce the proper subject of his paper, by citing a paragraph from Biot's articles, in which the latter accuses the Indianists of the present day of shutting their eyes, partly in ignorance and partly in prejudice, to his demonstration of the Chinese origin of the Hindu asterisms. This led to an account of the discussion of this subject, first opened by Biot in 1840, and since renewed by him at various times, especially against Weber, who held the contrary opinion; and also, to an energetic disclaimer on the part of the translators of the Súrya-Siddhanta, and an earnest protest in behalf of their fellow Indianists, against such injurious imputations. The recent restatement and defence made by the French savant of his views upon the matter in hand was submitted to examination. Its only new feature and strongest point, the division of the Hindu nakshatra system into two forms, an ancient and a modern one, was claimed to be merely subjective, to exist in M. Biot's apprehension and classification of the facts bearing upon its history, but to be unfounded in the facts themselves, as properly interpreted and connected. Especially, the assumption made by Biot and Weber, that the nakshatras, considered as divisions of the ecliptic, were ever measured from the circle of declination of one star of the series to that of another, was objected to as arbitrary and unsupported, and its refutation was attempted. The conclusion which the writer had earlier arrived at, and had expressed in the notes to the Sûrya-Siddhanta, was reiterated and urged anew: that the only effective part of M. Biot's argument for the Chinese origin of the nakshatras lay in his history of the Chinese astronomy: while the considerations with which Weber has assailed the documentary part of his historical argument, and the objections to which its scientific part was also shown to be open, so far weakened its force that it could not be regarded as at all conclusive; and the Chinese origin of the system must be pronounced at present unproved. The writer then passed to consider the opposing view of Weber, who holds that, while the Hindu system was itself of foreign origin, and probably derived from Chaldea, it was nevertheless the direct parent of the Arab and Chinese, and of all the other known forms of the same original. The à priori improbability of this view was first pointed out. It was claimed that the appearance of the fully developed system in China, even as reduced to its latest possible date by Weber himself, was too early for the admission of a direct influence of India on China, the other indications relied on to support

this being of more than doubtful value. The evidence of the derivation of the Arab system from the Hindu was pronounced unsatisfactory, the historically known influence of the Hindu on the Arab science being of a date at which we know the nakshatras in detail, as notably different from the manazil. Weber's chief argument, that the Hindu system had been a shifting and changing one, and that the others represented one of its latest forms, was discussed in detail. It was shown to be underlaid throughout by the assumption already refuted, that the arcs of the zodiac were originally measured from star to star of the series: if this fell away, a great part of the ground of plausibility of the argument and its proofs fell also. The detailed evidences of the varying nature of the nakshatra series were carefully criticised, and condemned as small in amount and weak in character: many of the circumstances brought up as indications of change were, rightly interpreted, either indications of stability, or readily explainable on the supposition of stability; and the whole residue amounted to less than was derivable from a simple comparison of the nakshatras with the mandil and sieu. The strongest point in the argument was the number of the stars or groups in the extra-Indian systems, being 28, while the earlier traceable and generally accepted Indian number was 27, and the system admitted of being looked upon as expanded from 27 to 28. But it was argued against this that the priority of appearance of the 27-series was too slight to furnish unequivocal evidence of priority of origin, and that the parallelism in use of the two systems afforded ground for a different explanation, which was favored by the general probabilities of the case. The writer was of opinion, then, that Weber's essay, while it was an admirable monument of the learning, industry, and acuteness of its author, and the most valuable contribution yet made to the history of the nakshatras, furnishing the greatly needed material for an understanding of their earliest traceable character and use, yet failed to establish the historical thesis which it was, in part, framed and intended to support. He inclined still to cling to his former opinion, that neither China nor India had received the system of asterisms direct from the other: it had most probably spread to both countries from a centrally situated original.

The length of Prof. Whitney's paper, and the lack of time, necessitated the pre-

sentation of the greater part of it in the form of a résumé and abstract.

The time of separation having arrived, it was announced that the next meeting of the Society would be held in Boston, on Wednesday, May 20th, 1863, and that Prof. Beek of Cambridge, and the Recording and Corresponding Secretaries, had been appointed a Committee of Arrangements for it; a vote of thanks was passed to the College of New Jersey for the use of its Library, kindly furnished as the place for holding the sessions just brought to a close; and the Society adjourned.

ADDITIONS TO THE LIBRARY AND CABINET.

Мау, 1861-Остовек, 1862.

From the American Academy of Arts and Sciences.

Memoirs of the American Academy of Arts and Sciences. Vol. viii, Part 1. Boston: 1861. 4to.

Proceedings of the American Academy of Arts and Sciences. Vol. v, pp. 1-312. Boston: 1861. 8vo.

From the American Antiquarian Society.

Proceedings of the American Antiquarian Society.... Worcester, Oct. 21, 1861;.... Boston, Apr. 30, 1862. Boston: 1861-2. Svo.

From the Secretaries of the Am. Board of Comm. for Foreign Missions.

Memorial Volume of the First Fifty Years of the American Board of Commissioners for Foreign Missions. Fourth Edition. Boston: 1861. 8vo.

Seven pamphlets concerning the missions and operations of the A. B. C. F. M., viz. Historical Sketch of the Missions in European Turkey, Asia Minor, and Armenia.—Historical Sketch of the Mission to the Nestorians, by J. Perkins, D.D., and of the Assyria Mission, by Rev. Thos. Lawrie.—Historical Sketch of the Syria Mission, by Rev. Thos. Lawrie.—Maps of Missions.—Letter to the Rev Robert S. Candlish, D.D., by R. Anderson, D.D.—The A. B. C. F. M., by A. P. Peabody.—The American Board and its Reviewers. Boston and New York: 1861-62. 8vo. Annual Report of the A. B. C. F. M. 1861. Boston: 1861. 8vo. Rules for the Orthography of Arabic and Turkish Words in Roman Letters.

Rules for the Orthography of Arabic and Turkish Words in Roman Letters.

Adopted by the Syrian Mission of the A. B. C. F. M., April, 1888. Reprinted with slight modifications, 1860. 18mo.

From the American Philosophical Society.

Proceedings of the American Philosophical Society. Vol. viii, pp. 277-408; Vol. ix. pp. 1-52. Philadelphia: 1862. Svo.

From the Asiatic Society of Bengal.

Journal of the Asiatic Society of Bengal. 1858, No. 5. 1859, No. 5. 1860, Nos. 1-4. 1861, No. 1. Calcutta. 8vo.

From the Batavian Society of Arts and Sciences.

Verhandelingen van het Bataviaasch Genootschap van Kunsten en Wetenschappen. Deel xxvii, xxviii. Batavia: 1860. 4to.

Tijdschrift voor Indische Taal-, Land-, en Volkenkunde.... Deel vii-x. Batavia: 1858-61. 8vo.

From Rev. K. M. Banerjea, of Calcutta.

Dialogues on the Hindu Philosophy, comprising the Nyaya, the Sankhya, the Vedant; to which is added a Discussion of the Authority of the Vedas. By Rev. K. M. Banerjea, etc. London and Edinburgh: 1861. 8vo.

From the Royal Academy of Sciences at Berlin.

Monatsberichte der Königlichen Akademie der Wissenschaften zu Berlin. Aus dem Jahre 1860. Berlin: 1861. 8vo.

Philologische und Historische Abhandlungen der Kön. Ak. d. Wiss. zu Berlin. Aus dem Jahre 1860. Berlin: 1861. 4to. From Prof. Otto Böhtlingk, of St. Petersburg.

Bemerkungen zu Benfey's Uebersetzung des Pank'atantra, von Otto Boehtlingk. [pp. 204-279 of Tome iv of Mél. As. . . . de l'Ac. Imp. . . . de St. Pétersbourg.] St. Petersburg: 1861. 8vo.

From Professors Böhtlingk und Roth.

Sanskrit Wörterbuch, herausgegeben von der Kaiserlichen Akademie der Wissenschaften. Bearbeitet von Otto Boehtlingk und Rudolph Roth. Lieferungen 19-21. St. Petersburg: 1860-61. 4to.

From the Bombay Branch of the Royal Asiatic Society.

Journal of the Bombay Branch of the Royal Asiatic Society. No. xxi, Vol. vi. Bombay: 1862. 8vo.

From Hon. C. W. Bradley, of Ningpo.*

The Mesnevi Hesht Gulzar, and the Shah-Nameh in Hindustani. roy. 8vo. lithographed.

The Wasukht Amanut, etc. roy. 8vo. lithographed.

The Sihr-i-Mahfil, etc.

The Divan Mir Yar Ali, etc.

Meddelelser angaaende Evangeliets Udbredelse i China. 1855-57. Copenhagen, 8vo. Travels into Bokhara.... By Capt. Sir Alexander Burnes etc. New Edition. London: 1839. 3 vols. 16mo.

From Prof. Hermann Brockhaus, of Leipzig.

Die Lieder des Hafis, . . . , herausgegeben von Hermann Brockhaus. iii. 3, 4. Leipzig: 1861. roy. 8vo.

Analyse der Indischen Mährchen-Sammlung des Somadeva. Buch vii, ch. 35-48. Leipzig: 1861. 8vo.

From John P. Brown, Esq., of Constantinople.

Majmû'ah Funûn, athar Jam'îah 'Ilmîyah 'Uthmânîyah, i. e. Diverse Branches of Knowledge Combined, by way of a Summary of Ottoman Learning. Nos. 1, 2, for Muharram and Şafar, A. H. 1279. A monthly periodical, published at Constantinople.

Taswîr Afkâr, i. e. Actualization of Ideas. Nos. 18, 19, 20, 21. Aug., A. H. 1279. An Ottoman gazette.

From Rev. Nathan Brown, D.D., of New York.

The New Testament translated into the Asamese Language By Nathan Brown Third Edition. Sibsagor, Asam: 1850. roy. 8vo.

From Charles Bruce, Esq.

Die Geschichte von Nala. Versuch einer Herstellung des Textes von Charles Bruce. St. Petersburg: 1862. 8vo.

From Rev. Ebenezer Burgess, of Lanesville, Mass.

Devanâgarî manuscript of the Çâkalya-Sanhitâ, a Sanskrit astronomical work; modern copy. sm. 4to size. European paper and form.

From the Royal University of Norway, at Christiania.

Karlamagnus Saga ok Kappa hans Udgivet af C. R. Unger. II. Christiania: 1860. 8vo.

Det Kongelige Norske Frederiks Universitets Stiftelse, fremstillet af M. J. Monrad. Christiania: 1861. 8vo.

Three University programmes, on scientific subjects, viz. H. Mohn. Om Kometbanernes Indbyrdes Beliggenbed.—Michael Sars. Om Siphodentalium Vitreum.—C. M. Guldberg. Om Cirklersberöring. Christiania: 1861. 4to.

^{*} These are in part accidental omissions from last year's list.

From J. G. Cogswell, LL.D., of New York.

Catalogue or Alphabetical Index of the Astor Library. In Two Parts. Part I. Authors and Books. 4 vols. roy. 8vo. New York: 1860.

From Rev. Prof. G. E. Day, of Walnut Hill, O.

De Munten der Engelschen voor den Oost-Indischen Archipel, beschreven door H. C. Millies. Amsterdam: 1852. 8vo.

Notice sur les Nouvelles Monnaies pour les Colonies Otientales Nécrlandaises, par H. C. Millies Bruxelles: 1858. 8vo.

Proeve eeuer Makassaarsche Vertaling des Korans, door B. F. Matthes. Batavia. 8vo.

From Dr. M. R. Delany.

Official Report of the Niger Exploring Party. By M. R. Delany. New York: 1861. 8vo.

From the German Oriental Society.

Zeitschrift der Deutschen Morgenländischen Gesellschaft. xv. 2-4; xvi. 1-3. Leipzig: 1861-2. Svo.

Indische Stadien ..., herausgegeben von Albrecht Weber. v. 1-3; vi. Berlin: 1861. 8vo.

Die Krone der Lebensbeschreibungen, enthaltend die Classen der Hanefiten, von Zeid ad din Küsim Ibn Kutlübugä herausgegeben von Gustav Flügel, etc. [ii. 3 of Abhandl, d. Deutsch, Morg. Ges.] Leipzig: 1862. 8vo.

From Rev. William Goodell, D.D., of Constantinople.

A sheet, 30 by 22 inches, containing calligraphie specimens, in black and red ink, of twelve different styles of writing used by the Turks.

From S. Hastings Grant, Esq, of New York.

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